

# Drexel University

Catalog 2005 / 2006

## Table of Contents

*The College of Nursing and Health Professions: Undergraduate Programs*

<b>About the College</b> .....	<b>2</b>
<i>Nursing Programs</i>	
<b>B.S. in Nursing</b> .....	<b>4</b>
About the program, Co-op, Requirements/Plan of Study	
<b>B.S./M.S.N. Dual Degree</b> .....	<b>9</b>
About the program, Requirements/Plan of Study	
<b>Accelerated Career Entry (ACE) B.S.N.</b> .....	<b>14</b>
About the program, Requirements/Plan of Study	
<b>R.N./B.S.N. Completion Degree</b> .....	<b>16</b>
About the program, Requirements/Plan of Study	
<b>Accelerated R.N./B.S.N./M.S.N.</b> .....	<b>19</b>
About the program, Requirements	
<i>Programs in Health Professions</i>	
<b>Behavior and Addictions Counseling Sciences</b> .....	<b>20</b>
About the B.S. program, Requirements, About the Concentrations, Plans of Study	
<b>Cardiovascular Perfusion Technology</b> .....	<b>36</b>
About the A.S. and B.S. programs, Requirements/Plans of Study	
<b>Emergency Medical Sciences</b> .....	<b>39</b>
About the A.S. and B.S. programs, Requirements/Plans of Study, Completion program option	
<b>Health and Society Degree-Completion</b> .....	<b>50</b>
About the A.S. and B.S. completion requirements	
<b>Health Sciences (Pathway to Health Professions)</b> .....	<b>54</b>
About the A.S. program, B.S. program, Honor program, Requirements, Plans of Study	
<b>Health Services Administration</b> .....	<b>65</b>
About the B.S. program, Requirements	
<b>Radiologic Technology</b> .....	<b>68</b>
About the A.S. program, Requirements/Plan of Study, Post-Certificate option	



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

#### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op Programs](#) [Policies](#)

## The College of Nursing and Health Professions

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

The College of Nursing offers the following undergraduate programs:

- [Behavioral and Addictions Counseling Sciences](#)
- [Health Sciences](#)
- [Cardiovascular Perfusion Technology](#)
- [Emergency Medical Services](#)
- [Health Education and Related Training \(HEART\)](#)
- [Health and Society Degree-Completion Programs](#)
- [Health-Services Administration](#)
- [Nursing](#)
- [Radiologic Technology](#)

## Nursing

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

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

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

- *Rigorous:* We continuously review and redesign programs, courses and educational products for depth and quality with the learner's experience and background always in the foreground. A significant percentage of full time faculty practice as part of their academic workload and serve as excellent role models for developing clinicians. In addition, a growing number of full time faculty are engaged in research activities.
- *Relevant:* We continuously examine changing market forces, the progression of nursing knowledge and best practices in health care and

education to redesign educational programs and products. There is a strong commitment to population focused practice in diverse, urban communities.

- *Learner Friendly*. In consideration of the demanding, fast-paced lives of our students and nurse consumers, we offer educational programs in convenient and contemporary formats including access to academic and continuing education web-based courses.



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## B.S. in Nursing (B.S.N.)

Students graduate with a bachelor of science in nursing and eligibility to sit for the R.N. licensure examination.

The B.S. 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 B.S.N. is awarded at the completion of the program.

For more information about the B.S.N. with Co-Op option at Drexel, visit the [Nursing Co-Op Program](#) page.



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## B.S.N. Co-Op Program

### B.S.N. 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 will have co-operative education experiences in traditional health care environments that emphasize the delivery of nursing care to adults and adolescents with acute and chronic illnesses. The majority of placements will be in general and specialty medical-surgical units. Students will function in the role as an unlicensed assistive person and their job description will be modeled similarly to unlicensed assistive personnel or nursing externs.

#### *Third Experience*

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

Students will have co-operative education experiences in a specialty area of their choice which will build upon their previous clinical courses and work experiences. For example, students may elect to specialize in labor and delivery, critical care, or

return to work for a pharmaceutical or managed care company. Selection of content area for the Co-op III site will be made by each student in consultation with the student's faculty advisor. Students will be given a suggested reading list and texts to be used for supplemental reading and learning for the specialty co-op area. Students will function in the role as an unlicensed assistive person and their job description will be modeled similarly to the role of unlicensed assistive personnel or nursing externs.



# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Recommended Plan of Study

### BS Nursing

*Bachelor of Science Degree*

[5-yr co-op](#)

Term 1		Credits
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">NURS 100 WI</a>	Nursing in Society	3.0
<a href="#">CHEM 108</a>	Health Chemistry I	3.0
<a href="#">PSY 101</a>	General Psychology I	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<i>Term credits</i>		13.0
Term 2		Credits
<a href="#">ANAT 101</a>	Anatomy & Physiology I	5.0
<a href="#">CHEM 103</a>	General Chemistry III	5.0
<a href="#">CS 161</a>	Introduction to Computing	3.0
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">UNIV 101</a>	The Drexel Experience <sup>1</sup>	1.0
<i>Term credits</i>		17.0
1	Two credits will be awarded at the completion of the courses in the winter quarter. Students receive an "I" in the fall quarter.	
Term 3		Credits
<a href="#">ANAT 102</a>	Anatomy & Physiology II	5.0
<a href="#">BIO 221</a>	Microbiology	5.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">NURS 102</a>	Health Promotion, Teaching and Self Care	4.0
<i>Term credits</i>		17.0
Term 4		Credits
<a href="#">ANAT 103</a>	Anatomy & Physiology III	5.0
<a href="#">NURS 200</a>	Principles of Nursing Practice	4.0
<a href="#">NURS 201</a>	Health Assessment Across the Life Span	4.0
<a href="#">NURS 404</a>	Nursing Informatics	3.0
<i>Term credits</i>		16.0
Term 5		Credits
<a href="#">NFS 200 WI</a>	Nutrition I: Principles of Nutrition	4.0
<a href="#">NURS 300</a>	Comprehensive Adult Nursing I	6.0
<a href="#">NURS 301</a>	Pharmacology for Nursing I	3.0
<a href="#">SOC 101</a>	Introduction to Sociology	3.0
<a href="#">NURS 388</a>	Nursing Case Study Integration I	1.0
<i>Term credits</i>		17.0
Term 6		Credits
<a href="#">NURS 337</a>	Genetics in Nursing and Health	3.0
<a href="#">PSY 120</a>	Developmental Psychology	3.0
<a href="#">NURS 308</a>	Mental Health Nursing	6.0
<a href="#">NURS 339</a>	Pathophysiology for Nurses	3.0
or		
	Elective	3.0
<i>Term credits</i>		15.0
Term 7		Credits
<a href="#">NFS 203</a>	Nutrition II: Nutrition in the Life Cycle	4.0
<a href="#">NURS 305</a>	Comprehensive Adult Nursing II	6.0
<a href="#">NURS 306</a>	Pharmacology for Nursing II	3.0

<a href="#">SOC 125</a>	<b>Sociology of Aging</b> <sup>1</sup>	3.0
<a href="#">NURS 488</a>	<b>Nursing Case Study Integration II</b>	1.0
	<i>Term credits</i>	<b>17.0</b>
1	Students may select an alternative option to SOC 125 from the following: ANTH 220 Aging in the Cross-Cultural Perspective; ANTH 380 Special Topics: Health, Ethnicity and Culture; SOC 380: Special Topics: Family Dynamics in Health Care; SOC 380 Special Topics: Health and Social Justice; or SOC 325 Sociology of Health.	
	<b>Term 8</b>	<b>Credits</b>
<a href="#">NURS 303</a>	<b>Women's Health Nursing</b>	6.0
<a href="#">PHIL 251</a>	<b>Ethics</b>	3.0
or		
<a href="#">PHIL 321</a>	<b>Biomedical Ethics</b>	3.0
<a href="#">PSY 364</a>	<b>Computer-assisted Data Analysis I</b>	3.0
or		
	<b>Statistics elective</b>	4.0
	<i>Term credits</i>	<b>12.0</b>
	<b>Term 9</b>	<b>Credits</b>
<a href="#">NURS 304</a>	<b>Nursing of Children</b>	6.0
<a href="#">NURS 400 WI</a>	<b>Leadership, Management, and Entrepreneurship in Nursing</b>	4.0
	<b>Elective</b>	3.0
	<b>Social Science elective</b>	3.0
	<i>Term credits</i>	<b>16.0</b>
	<b>Term 10</b>	<b>Credits</b>
<a href="#">NURS 330 WI</a>	<b>Research Basis of Nursing</b>	4.0
<a href="#">ECON 240</a>	<b>Economics of Health Care Systems</b>	4.0
<a href="#">NURS 450</a>	<b>Contemporary Gerontological Nursnig</b>	6.0
	<b>Elective</b>	3.0
	<i>Term credits</i>	<b>17.0</b>
	<b>Term 11</b>	<b>Credits</b>
<a href="#">NURS 403</a>	<b>Community Public Health Nursing</b>	6.0
<a href="#">NURS 489</a>	<b>Synthesis of Nursing Knowledge</b>	4.0
	<b>Humanities elective</b>	3.0
	<i>Term credits</i>	<b>13.0</b>
	<b>Term 12</b>	<b>Credits</b>
<a href="#">NURS 401</a>	<b>Comprehensive Adult Nursing III</b>	6.0
<a href="#">NURS 492</a>	<b>Senior Seminar in Nursing</b>	3.0
<a href="#">NURS 490</a>	<b>Senior Project in Nursing I</b>	3.0
	<i>Term credits</i>	<b>12.0</b>
<b>Total credits (minimum)</b>		<b>182.0</b>





### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## B.S.N./M.S.N. Dual Degree Co-op Program

The B.S.N./M.S.N. degree program lets academically qualified students earn both a B.S.N. and an M.S.N. in five years—the time it usually takes to earn the bachelor's degree alone.

The B.S.N. curriculum responds to the rapidly changing health care system, as well as to student's needs. Once students complete their undergraduate coursework, they are awarded the B.S.N. and are eligible to sit for the R.N. licensure examination.

The M.S.N. prepares leaders for advanced nursing roles. Courses from nursing and other disciplines provide advanced theoretical knowledge, assessment skills, role and leadership development, the opportunity to critique and apply nursing theory and research as a scientific base for nursing practice. Students focus on an area of clinical concentration. .

This B.S.N./M.S.N. accelerated degree program combines the practical work experience of Drexel undergraduate co-operative education with the credentials of a graduate degree. With both an undergraduate and a graduate degree and practical work experience, students enter the workforce with specialized knowledge and training, giving them a much wider range of career opportunities.

New students may submit applications program as incoming freshmen. Students already enrolled in Drexel's B.S.N. Co-op program may apply for the dual degree option during the first year of study. Students must consult with an academic advisor.

Students enrolled in the dual degree program will take initial master's-level courses during the third and fourth year of study and will then complete a fifth year consisting of all graduate-level study to receive their M.S.N.

For more information about this program at Drexel, visit the [B.S.N./M.S.N. Dual Degree Program](#) page.

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## B.S.N./M.S.N. Dual Degree Co-op Program

*Bachelor of Science in Nursing Degree*

*Master of Science in Nursing Degree*

*Total undergraduate credits: 181.0*

*Total graduate credits in dual degree program: 49.0*

*Number of graduate credits applied to M.S.N.: 45.0*

Students enrolled in the dual degree program will take four master's-level courses in lieu of the senior project and the three free electives to complete the B.S.N. Students choosing to continue will then complete a fifth year consisting of all graduate-level study to receive their M.S.N.

### Recommended Plan of Study:

#### *First year*

Fall Term		Credits
<a href="#">CHEM 108</a>	Health Chemistry I	3.0
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">NURS 100 WI</a>	Nursing in Society	3.0
<a href="#">PSY 101</a>	General Psychology	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<b>Total credits</b>		<b>13.0</b>

#### Winter Term

<a href="#">ANAT 101</a>	Anatomy & Physiology I	5.0
<a href="#">CHEM 103</a>	General Chemistry II	5.0
<a href="#">CS 161</a>	Introduction to Computing	3.0
<a href="#">ENGL 102</a>	Readings and Research	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<b>Total credits</b>		<b>17.0</b>

#### Spring Term

<a href="#">ANAT 102</a>	Anatomy & Physiology II	5.0
<a href="#">BIO 226</a>	Microbiology	5.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">NURS 102</a>	Health Promotion, Teaching and Self Care	4.0
<b>Total credits</b>		<b>17.0</b>

Second year

Fall Term

<a href="#">ANAT 103</a>	Anatomy & Physiology III	5.0
<a href="#">NURS 404</a>	Nursing Informatics	3.0
<a href="#">NURS 200</a>	Principles of Nursing Practice	4.0
<a href="#">NURS 201</a>	Health Assessment Across the Life Span	4.0
<b>Total credits</b>		<b>16.0</b>

Winter Term

<a href="#">NFS 200 WI</a>	Nutrition I: Principles of Nutrition	4.0
<a href="#">NURS 300</a>	Comprehensive Adult Nursing I	6.0
<a href="#">NURS 301</a>	Pharmacology for Nursing I	3.0
<a href="#">NURS 388</a>	Nursing Case Study Integration	1.0
<a href="#">SOC 101</a>	Introduction to Sociology	3.0
<b>Total credits</b>		<b>17.0</b>

Spring Term \*

<a href="#">NURS 308</a>	Mental Health Nursing	3.0
<a href="#">NURS 337</a>	Genetics in Nursing and Health	3.0
<a href="#">NURS 339</a>	Pathophysiology for Nurses	3.0
<a href="#">PSY 120</a>	Developmental Psychology	3.0
	Elective	3.0
<b>Total credits</b>		<b>18.0</b>

\*Students must have 3.25 GPA by the end of this quarter in order to progress to the dual-degree graduate courses.

Summer Term

<a href="#">NFS 203</a>	Nutrition II: Nutrition in the Lifecycle	4.0
<a href="#">NURS 305</a>	Comprehensive Adult Nursing II	6.0
<a href="#">NURS 306</a>	Pharmacology for Nursing II	3.0
<a href="#">SOC 125</a>	Sociology of Aging*	3.0
<b>Total credits</b>		<b>16.0</b>

\*Students may select an alternative option to SOC 125 from the following: ANTH 220 Aging in the Cross-Cultural Perspective; ANTH 380 Special Topics: Health, Ethnicity and Culture; SOC 380: Special Topics: Family Dynamics in Health Care; SOC 380 Special Topics: Health and Social Justice; or SOC 325 Sociology of Health.

Third year

Fall Term

<a href="#">NURS 303</a>	Women's Health Nursing	6.0
<a href="#">PSY 364</a>	Computer-Assisted Data Analysis I	3.0
or	Statistics course	
<a href="#">PHIL 321</a>	Biomedical Ethics	3.0
<a href="#">NURS 505</a>	Health Policy	4.0
<b>Total credits</b>		<b>16.0</b>

<b>Winter Term *</b>		<b>Credits</b>
<a href="#">NURS 304</a>	<b>Nursing of Children</b>	6.0
<a href="#">NURS 400 WI</a>	<b>Leadership, Management, and Entrepreneurship in Nursing</b>	4.0
<a href="#">NURS 488</a>	<b>Nursing Case Study Integration II*</b>	1.0
<a href="#">NURS 513</a>	<b>Nursing and Health Professions Research I</b>	4.0
<b>Total credits</b>		<b>18.0</b>

\*One credit course is completed during co-op. The coursework for NURS 488 and the grade submitted occurs in the Spring/Summer quarter.

#### **Spring Term**

Co-op	<b>Co-op II/III</b>	(12 CU)
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#### **Summer Term**

Co-op	<b>Co-op II/III</b>	(12 CU)
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### *Fourth year*

#### **Fall Term**

<a href="#">NURS 450</a>	<b>Contemporary Gerontological Nursing</b>	6.0
<a href="#">NURS 490 WI</a>	<b>Senior Project in Nursing I</b>	1.5
<a href="#">NURS 611</a>	<b>Nursing and Health Professions Research I</b>	4.0
<a href="#">ECON 240</a>	<b>Health Economics</b>	3.0
	<b>Social Science elective</b>	3.0
<b>Total credits</b>		<b>17.5</b>

#### **Winter Term**

<a href="#">NURS 489</a>	<b>Synthesis of Nursing Knowledge</b>	4.0
<a href="#">NURS 403</a>	<b>Community and Public Health Nursing</b>	6.0
<a href="#">NURS 490 WI</a>	<b>Senior Project in Nursing I</b>	1.5
<a href="#">NURS 509</a>	<b>Improving Systems of Health Promotion</b>	4.0
<b>Total credits</b>		<b>15.5</b>

#### **Spring Term**

<a href="#">NURS 401</a>	<b>Comprehensive Adult Nursing III</b>	6.0
<a href="#">NURS 492</a>	<b>Senior Seminar in Nursing</b>	3.0
	<b>Humanities elective</b>	3.0
<b>Total credits</b>		<b>12.0</b>

### *Fifth year*

#### **Fall Term**

<a href="#">NURS 601</a>	<b>Advanced Clinical Assessment</b>	6.0
<a href="#">NURS 525</a>	<b>Physiology for Advanced Nursing Practice</b>	4.0

<a href="#">NURS 514</a>	<b>Leadership in Nursing</b>	3.0
<b>Total credits</b>		13.0

**Winter Term**

	<b>Nursing concentration course I*</b>	7.0
	<b>Elective</b>	3.0
<b>Total credits</b>		10.0

\*Students select the first of a sequence of two courses from one of the following concentrations:

*Women's Health*

NURS 607 Women's Health I  
NURS 608 Women's Health II

*Adult Health*

NURS 621 Adult Health I  
NURS 622 Adult Health II

*Pediatric Health*

NURS 633 Pediatric Health I  
NURS 634 Pediatric Health II

**Spring Term**

	<b>Nursing concentration course II*</b>	7.0
	<b>Elective</b>	3.0
<b>Total credits</b>		10.0

\*Students select the second in a sequence of two courses from one of the following concentrations:

*Women's Health*

NURS 607 Women's Health I  
NURS 608 Women's Health II

*Adult Health*

NURS 621 Adult Health I  
NURS 622 Adult Health II

*Pediatric Health*

NURS 633 Pediatric Health I  
NURS 634 Pediatric Health II



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Accelerated Career Entry (ACE) B.S.N. Option

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

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

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



# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science  
and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science  
and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Accelerated Career Entry (ACE) B.S.N. Option

*Bachelor of Science in Nursing Degree 86.0 credits*

Fall Quarter		Credits
<a href="#">NURS 100 WI</a>	Nursing in Society	3.0
<a href="#">NURS 102</a>	Health Promotion, Teaching and Self Care	4.0
<a href="#">NURS 200</a>	Principles of Nursing Practice	4.0
<a href="#">NURS 201</a>	Health Assessment Across the Life Span	4.0
<a href="#">NURS 337</a>	Genetics in Nursing and Health	3.0
<a href="#">NURS 404</a>	Nursing Informatics	3.0
<b>Total credits</b>		<b>21.0</b>

Winter Quarter		Credits
<a href="#">NURS 300</a>	Comprehensive Adult Nursing I	6.0
<a href="#">NURS 301</a>	Pharmacology for Nursing I	3.0
<a href="#">NURS 303</a>	Women's Health Nursing	6.0
<a href="#">NURS 308</a>	Mental Health Nursing	3.0
<b>Total credits</b>		<b>21.0</b>

Spring Quarter		Credits
<a href="#">NURS 304</a>	Nursing of Children	6.0
<a href="#">NURS 305</a>	Comprehensive Adult Nursing II	6.0
<a href="#">NURS 306</a>	Pharmacology for Nursing II	3.0
<a href="#">NURS 403</a>	Community Public Health Nursing	6.0
<b>Total credits</b>		<b>21.0</b>

Summer Quarter		Credits
<a href="#">NURS 330 WI</a>	Research Basis of Nursing	4.0
<a href="#">NURS 400 WI</a>	Leadership, Management, and Entrepreneurship in Nursing	4.0
<a href="#">NURS 401</a>	Comprehensive Adult Nursing III	6.0
<a href="#">NURS 450</a>	Contemporary Gerontological Nursing	6.0
<a href="#">NURS 492</a>	Senior Seminar in Nursing	3.0
<b>Total credits</b>		<b>23.0</b>



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## R.N./B.S.N. Completion Program

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

A B.S.N. is awarded at the completion of the program. Qualified students are encouraged to submatriculate in the M.S.N. program (R.N./B.S.N./M.S.N. option) while enrolled in the B.S.N. program. Students may take 3 to 15 M.S.N. credits in lieu of NURS 460 or NURS 462.

For more information about this completion program at Drexel, visit the [R.N./B.S.N. Program](#) page.





# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## R.N./B.S.N. Completion Program

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

In addition, courses are offered in an online format. Students can complete class work at home with just a few scheduled live chats/virtual classes. This is a popular option for busy professionals.

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

First Tier	Credits
ENGL 101	3.0
ENGL 102	3.0
ENGL 103	3.0
Humanities	3.0
Sociology	3.0
Psychology	3.0
Growth and Development	3.0
Anatomy	6.0
Physiology	6.0
Microbiology	6.0
Electives	6.0
Nursing	(Validated transfer credits) 45.0

Second Tier	Credits
Introduction to Computers	4.0
Statistics	4.0
Economics	4.0
Ethics	4.0
Social science elective	4.0
Science elective	6.0
Advanced Physiology or Pharmacology or Pathophysiology	5.0
Electives	12.0

Level One Courses	Credits
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<a href="#">NURS 325</a>	Critical Issues Shaping Professional Nursing	3.0
<a href="#">NURS 340</a>	Transformational Leadership/ Management in Nursing	3.0
<a href="#">NURS 346</a>	Health Assessment and Promotion for Diverse and Vulnerable Populations	6.0
<a href="#">NURS 404</a>	Nursing Informatics	3.0

**Level Two Courses** **Credits**

<a href="#">NURS 330</a>	Research Basis of Nursing	4.0
<a href="#">NURS 337</a>	Genetics in Nursing and Health	3.0
<a href="#">NURS 370</a>	Issues in Aging and Longevity	4.0
<a href="#">NURS 375</a>	Nurses Building a Healthy Community: Theory and Practice	6.0

**Level Three Courses** **Credits**

<a href="#">NURS 460</a>	Global Health and Policy Issues	6.0
<a href="#">NURS 462</a>	Science, Technology, and Health: A Nursing Perspective	6.0
<a href="#">NURS 464</a>	Senior Concentration in Nursing	3.0
or		
<a href="#">NURS 465</a>	Senior Thesis in Nursing	



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## R.N./B.S.N./M.S.N. Program

The R.N./B.S.N./M.S.N. program is an accelerated program designed for graduates of associate-degree and diploma nursing programs who are committed to earning the Master of Science in Nursing degree. New students should complete the application process for the R.N./B.S.N. completion program. When the student is close to completing the BSN degree, an appointment is made with the RN/BSN academic advisor to discuss the MSN application process. (Note: This completion option is not available in the women's care practitioner track.)

Although the graduate application form must be completed, the application fee is waived. Admission requirements are the same as for the [M.S.N. program](#). The GRE or MAT requirement is waived for students accepted to all graduate nursing programs with the exception of nurse anesthesia.

After acceptance in the MSN program, students are permitted to take graduate courses to fulfill the open electives and replace either NURS 460 or NURS 462. Students must complete the remaining baccalaureate-level nursing and non-nursing courses and must take NURS 465: Senior Thesis. Students are not permitted to take graduate level courses until accepted by the MSN program and remain undergraduate students until all required credit hours for the BSN program have been completed.

If, after completing two or more M.S.N. courses, a student decides not to finish the program, the University awards the B.S.N., provided that the student has completed the required 180 credits. All students who have applied to and entered the R.N./B.S.N./M.S.N. program work closely with the academic advisor to ensure proper progression.

For more information about this program at Drexel, visit the [R.N./B.S.N. Program](#) page.



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Behavioral and Addictions Counseling Sciences

The Behavioral and Addictions Counseling Sciences program consists of a comprehensive, clinically applied curriculum divided into two concentrations that prepare students with essential competencies for them to immediately begin making substantial contributions as professionals within today's evolving and demanding behavioral health care field:

- [Behavioral Counseling Sciences](#)
- [Addictions Counseling Sciences](#)

Students may enter these concentrations as two-year transfer students or through the four-year Bachelor of Science Degree option.

Behavioral health care professions work in a variety of community agencies, outpatient treatment services, and inpatient and residential treatment settings, serving children, adolescents, and the elderly who suffer as a result of disabling mental illnesses and/or substance use disorders. Graduates who choose to enter the behavioral health care workforce find immediate employment in such functions as psychiatric rehabilitation, family and child support services, addictions counseling, case management, individual and group counseling, and crisis intervention. Graduates are also exceptionally well prepared to pursue advanced degrees in counseling, social work, psychology and related professions.

The curriculum design allows students engaged in either concentration options in selecting courses that reflect individual interests and meet a variety of pre-professional development needs. Students may also combine certain course sequences to earn [Certificates of Advanced Study](#) in one or more clinical practice specializations. Curriculum options available to students are selected after close consultation with a faculty advisor chosen by the student or by the department head.



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Behavioral and Addictions Counseling Sciences

*Bachelor of Science Degree: 120.0 credits*

The curriculum is divided into five sections:

- **College and General Two-Year Transfer Requirements**  
Entering freshmen begin with these general education courses. Transfer students from other colleges nearing the end of their sophomore year should have completed most, if not all, of the credits within these course categories prior to applying. It is not necessary to have completed an associate's degree before completing a transfer application.
- **Foundation Requirements for Both Concentrations**  
These courses are common to both concentrations and may be taken by four-year students along with general education requirements during their sophomore year. Transfer students who have already completed the equivalent of one or more foundation courses with a grade of "B" or better during the five years prior to application to this program, may substitute electives from other areas in the program to complete the total credits required for the Bachelor of Science degree.
- **Behavioral Counseling Sciences Core**  
These courses are generally reserved for junior/senior year standing students. Students in this concentration are generally full-time students.
- **Addictions Counseling Sciences Core**  
These courses are also generally reserved for junior/senior year standing. Additionally, these courses are offered weekdays between 4:00 PM and 6:50 PM and on Saturdays, between 9:00 AM and 11:50 AM and 1:00 PM and 3:50 PM. This concentration is ideal for both full- and part-time students.
- **General Electives**  
Electives can be chosen from the list of electives or from core courses in either concentration.

### Requirements

Freshmen applying to either concentration will complete the general education requirements listed below in the College of Nursing and Health Professions during their first two years of study before advancing to the core courses in either of this program's concentrations. Transfer students seeking junior-year entry are expected to have already completed most or all of these general education requirements

College Requirements and and General Two-Year Transfer Requirements	Credits
<a href="#">ENGL 101S</a> Composition and Literature I	3.0
<a href="#">ENGL 102S</a> Composition and Literature II	3.0
<a href="#">CMPS 125S</a> Computer Studies or Communications elective	3.0

or		
<a href="#">SPCH 213S</a>		
<a href="#">MATH 102S</a>	College Mathematics (or higher)	3.0
or		
<a href="#">STAT 344S</a>	Statistics for Behavioral Science	
<a href="#">BIOL 201S</a>	General Biology I	3.0-4.0
or		
<a href="#">CHEM 201S</a>	General Chemistry I	
or		
	Natural Science elective	
	Humanities and Social Science electives	21.0
	General electives	24.0

<b>Foundation Requirements for Both Concentrations</b>		<b>Credits</b>
<a href="#">BCS 367S</a>	Foundations of Behavioral Health Care	3.0
or		
<a href="#">ADCS 342S</a>	Foundations of Behavioral Health Care	
<a href="#">BCS 352S</a>	Life-Span Human Development	3.0
or		
<a href="#">ADCS 364S</a>	Life-Span Human Development	
<a href="#">BCS 360S</a>	Behavioral Disorders	3.0
or		
<a href="#">ADCS 360S</a>	Behavioral Disorders	
<a href="#">BCS 336S</a>	Theory and Practice of Counseling	3.0
or		
<a href="#">ADCS 322S</a>	Theory and Practice of Counseling	
<a href="#">BCS 344S</a>	Multicultural Counseling Perspectives	3.0
or		
<a href="#">ADCS 344S</a>	Multicultural Counseling Perspectives	

<b>Behavioral Counseling Sciences Core</b>		<b>Credits</b>
<a href="#">BCS 301S</a>	Psychiatric Rehabilitation Principles	3.0
<a href="#">BCS 337S</a>	Family-Focused Interventions	3.0
<a href="#">BCS 351S</a>	Cognitive-Behavioral Counseling	3.0
<a href="#">BCS 368S</a>	Group Counseling	3.0
<a href="#">BCS 363S</a>	Crisis and Brief-Interventions Counseling	3.0
<a href="#">BCS 371S</a>	Ethics and Professional Responsibility	3.0
<a href="#">BCS 395S</a>	Clinical Training I	9.0
<a href="#">BCS 355S</a>	Clinical Case Seminar I	2.0
<a href="#">BCS 396S</a>	Clinical Training II	9.0
<a href="#">BCS 356S</a>	Clinical Case Seminar II	2.0

<b>Behavioral Counseling Concentration Electives</b>		<b>6.0 Credits</b>
Choose one or both concentration electives (or any courses from the general electives listed below or from the Addictions Counseling Sciences concentration core)		
<a href="#">BCS 400S</a>	Psychiatric Rehabilitation Competencies	
<a href="#">BCS 392S</a>	Child and Adolescent Support Services	

<b>Addictions Counseling Sciences Core</b>		<b>Credits</b>
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<a href="#">ADCS 312S</a>	Introduction to Addictive Disorders	3.0
<a href="#">ADCS 332S</a>	Psychopharmacology for Counselors	3.0
<a href="#">ADCS 362S</a>	Ethics and Professional Responsibility	3.0
<a href="#">ADCS 365S</a>	Assessment and Treatment Planning	3.0
<a href="#">ADCS 402S</a>	Cognitive-Behavioral Counseling I	3.0
<a href="#">ADCS 404S</a>	Cognitive-Behavioral Counseling II	3.0
<a href="#">ADCS 410S</a>	Group Counseling I	3.0
<a href="#">ADCS 411S</a>	Group Counseling II	3.0
<a href="#">ADCS 408S</a>	Recovery and Relapse Prevention Methods	3.0
<a href="#">ADCS 412S</a>	Case Management Methods	3.0
<a href="#">ADCS 440S</a>	Senior Practicum	3.0

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**Addictions Counseling Concentration Electives**

**12.0  
Credits**

Choose any four courses from the General Electives listed below (or from Behavioral Counseling Sciences concentration core and electives)

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**General Electives**

**Credits**

<a href="#">BCS 391S</a>	Child Psychopathology	3.0
<a href="#">BCS 390S</a>	Independent Study	3.0
<a href="#">ADCS 401S</a>	Forensic Mental Health Services	3.0
<a href="#">ADCS 367S</a>	Addictions Counseling Interventions	3.0
<a href="#">ADCS 368S</a>	Addictions Counseling with Special Populations	3.0
<a href="#">ADCS 414S</a>	Co-occurring Disorders	3.0
<a href="#">ADCS 406S</a>	Senior Case Seminar	3.0



Home  
Contents  
Index  
E-mail  
Search  
Admissions

# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## Behavioral Counseling Sciences

The Behavioral Counseling Sciences concentration enables full-time students transferring from two-year colleges to complete their Bachelor of Science (B.S.) degree in two years. The first year provides foundational learning through competency-based courses for professional practice in behavioral health care settings. The second year integrates a twenty-hour per week clinical training experience with courses that continue guiding students toward increased competencies as behavioral health counselors.

For more information, visit the [Behavioral and Addictions Counseling Sciences](#) web page.





# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Behavioral Counseling Sciences

*Behavioral Counseling Bachelor of Science Degree: 121.0 credits*

*Transfer Student Behavioral Counseling Bachelor of Science Degree: 61.0 credits*

### Requirements

Freshmen applying to this concentration will complete the general education requirements listed below in the College of Nursing and Health Professions during their first two years of study before advancing to the core courses in either of this program's concentrations. Transfer students seeking junior-year entry are expected to have already completed most or all of these general education requirements

College Requirements and and General Two-Year Transfer Requirements		Credits
<a href="#">ENGL 101S</a>	Composition and Literature I	3.0
<a href="#">ENGL 102S</a>	Composition and Literature II	3.0
<a href="#">CMPS 125S</a>	Computer Studies or Communications elective	3.0
or		
<a href="#">SPCH 213S</a>		
<a href="#">MATH 102S</a>	College Mathematics (or higher)	3.0
or		
<a href="#">STAT 344S</a>	Statistics for Behavioral Science	
<a href="#">BIOL 201S</a>	General Biology I	3.0 - 4.0
or		
<a href="#">CHEM 201S</a>	General Chemistry I	
or		
	Natural Science elective	
	Humanities and Social Science electives	21.0
	General electives	24.0

### Foundation Requirements

<a href="#">BCS 367S</a>	Foundations of Behavioral Health Care	3.0
<a href="#">BCS 352S</a>	Life-Span Human Development	3.0
<a href="#">BCS 360S</a>	Behavioral Disorders	3.0
<a href="#">BCS 336S</a>	Theory and Practice of Counseling	3.0
<a href="#">BCS 344S</a>	Multicultural Counseling Perspectives	3.0

### Behavioral Counseling Sciences Core

<a href="#">BCS 301S</a>	Psychiatric Rehabilitation Principles	3.0
<a href="#">BCS 337S</a>	Family-Focused Interventions	3.0
<a href="#">BCS 351S</a>	Cognitive-Behavioral Counseling	3.0
<a href="#">BCS 368S</a>	Group Counseling	3.0

<a href="#">BCS 363S</a>	<b>Crisis and Brief-Interventions Counseling</b>	3.0
<a href="#">BCS 371S</a>	<b>Ethics and Professional Responsibility</b>	3.0
<a href="#">BCS 395S</a>	<b>Clinical Training I</b>	9.0
<a href="#">BCS 355S</a>	<b>Clinical Case Seminar I</b>	2.0
<a href="#">BCS 396S</a>	<b>Clinical Training II</b>	9.0
<a href="#">BCS 356S</a>	<b>Clinical Case Seminar II</b>	2.0

**Behavioral Counseling Concentration Electives** **6.0 Credits**

Choose one or both concentration electives (or any courses from the general electives listed below or from the [Addictions Counseling Sciences](#) concentration core)

<a href="#">BCS 400S</a>	<b>Psychiatric Rehabilitation Competencies</b>
<a href="#">BCS 392S</a>	<b>Child and Adolescent Support Services</b>

**General Electives**

<a href="#">BCS 391S</a>	<b>Child Psychopathology</b>	3.0
<a href="#">BCS 390S</a>	<b>Independent Study</b>	3.0
<a href="#">ADCS 401S</a>	<b>Forensic Mental Health Services</b>	3.0
<a href="#">ADCS 367S</a>	<b>Addictions Counseling Interventions</b>	3.0
<a href="#">ADCS 368S</a>	<b>Addictions Counseling with Special Populations</b>	3.0
<a href="#">ADCS 414S</a>	<b>Co-occurring Disorders</b>	3.0
<a href="#">ADCS 406S</a>	<b>Senior Case Seminar</b>	3.0



# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Behavioral Counseling Sciences

*Bachelor of Science Degree 121.0 credits*

### Recommended Plan of Study: Four-Year Curriculum

#### *Freshman year*

Term 1		Credits
<a href="#">CMPS 125S</a>	Computer Applications	3.0
<a href="#">ENGL 101S</a>	Composition and Literature I	3.0
<a href="#">FINA 101S</a>	Art History to 1350	3.0
<a href="#">PLSC 101S</a>	American National Government	3.0
<b>Total credits</b>		<b>12.0</b>

Term 2		Credits
<a href="#">ENGL 102S</a>	Composition and Literature II	3.0
<a href="#">HIST 111S</a>	History of Western Civilization I	3.0
<a href="#">PHIL 101S</a>	Introduction to Philosophy	3.0
<a href="#">MATH 102S</a>	College Mathematics	3.0
or		
<a href="#">MATH 112S</a>	College Algebra	
<a href="#">SOC 115S</a>	Introduction to Sociology	3.0
<b>Total credits</b>		<b>15.0</b>

#### *Sophomore year*

Term 3		Credits
<a href="#">ENGL 325S</a>	Literature and Psychology	3.0
<a href="#">HIST 203S</a>	History of Science	3.0
<a href="#">PSYC 101S</a>	Introduction to Psychology	3.0
<a href="#">SOC 217S</a>	Social Psychology	3.0
<b>Free elective</b>		<b>3.0</b>
<b>Total credits</b>		<b>15.0</b>

Term 4		Credits
<a href="#">ANTH 330S</a>	Cultural Anthropology	3.0
<a href="#">PSYC 319S</a>	Life-Span Human Development	3.0
<a href="#">SPCH 213S</a>	Public Speaking	3.0
<b>Two free electives</b>		<b>6.0</b>
<b>Total credits</b>		<b>15.0</b>

*Junior year*

<b>Term 5</b>		<b>Credits</b>
<a href="#">BCS 336S</a>	Theory and Practice of Counseling	3.0
<a href="#">BCS 367S</a>	Foundations of Behavioral Health Care	3.0
<a href="#">BCS 360S</a>	Behavioral Disorders	3.0
<a href="#">BCS 344S</a>	Multicultural Counseling Perspectives	3.0
<b>Total credits</b>		<b>12.0</b>

<b>Term 6</b>		<b>Credits</b>
<a href="#">BCS 368S</a>	Group Counseling	3.0
<a href="#">BCS 363S</a>	Crisis and Brief-Interventions Counseling	3.0
<a href="#">BCS 371S</a>	Ethics and Professional Responsibility	3.0
Program elective		3.0
<b>Total credits</b>		<b>12.0</b>

*Senior year*

<b>Term 7</b>		<b>Credits</b>
<a href="#">BCS 301S</a>	Psychiatric Rehabilitation Principles	3.0
<a href="#">BCS 337S</a>	Family-Focused Interventions	3.0
<a href="#">BCS 351S</a>	Cognitive-Behavioral Counseling	3.0
<a href="#">BCS 395S</a>	Clinical Training I	9.0
<a href="#">BCS 355S</a>	Clinical Case Seminar I	2.0
<b>Total credits</b>		<b>20.0</b>

<b>Term 8</b>		<b>Credits</b>
<a href="#">BCS 396S</a>	Clinical Training II	9.0
<a href="#">BCS 356S</a>	Clinical Case Seminar II	2.0
Two Program electives		6.0
<b>Total credits</b>		<b>17.0</b>



# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Behavioral Counseling Sciences

*Bachelor of Science Degree 61.0 credits*

### Recommended Plan of Study: Two-year Transfer Option

#### *Junior year*

Term 1		Credits
<a href="#">BCS 336S</a>	Theory and Practice of Counseling	3.0
<a href="#">BCS 367S</a>	Foundations of Behavioral Health Care	3.0
<a href="#">BCS 360S</a>	Behavioral Disorders	3.0
<a href="#">BCS 344S</a>	Multicultural Counseling Perspectives	3.0
<a href="#">BCS 352S</a>	Life-Span Human Development	3.0
<b>Total credits</b>		<b>15.0</b>

Term 2		Credits
<a href="#">BCS 368S</a>	Group Counseling	3.0
<a href="#">BCS 363S</a>	Crisis and Brief-Interventions Counseling	3.0
<a href="#">BCS 371S</a>	Ethics and Professional Responsibility	3.0
Program elective		3.0
<b>Total credits</b>		<b>12.0</b>

#### *Senior year*

Term 3		Credits
<a href="#">BCS 301S</a>	Psychiatric Rehabilitation Principles	3.0
<a href="#">BCS 337S</a>	Family-Focused Interventions	3.0
<a href="#">BCS 351S</a>	Cognitive-Behavioral Counseling	3.0
<a href="#">BCS 395S</a>	Clinical Training I	9.0
<a href="#">BCS 355S</a>	Clinical Case Seminar I	2.0
<b>Total credits</b>		<b>20.0</b>

Term 4		Credits
<a href="#">BCS 396S</a>	Clinical Training II	9.0
<a href="#">BCS 356S</a>	Clinical Case Seminar II	2.0
Program elective		6.0
<b>Total credits</b>		<b>14.0</b>



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## Addictions Counseling Sciences

The primary focus of the concentration in Addictions Counseling Sciences is to build professional workforce competencies in the following eight nationally recognized clinical practice dimensions: Clinical Evaluation; Treatment Planning; Referral; Service Coordination; Counseling; Client, Family, and Community Education; Documentation; and Professional and Ethical Responsibilities. Emphasis is on comprehensive counselor education within the classroom setting, with only a brief senior year practicum requirement.

For more information, visit the [Behavioral and Addictions Counseling Sciences](#) web page.



# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Addictions Counseling Sciences

*Addictions Counseling Bachelor of Science Degree: 120.0 credits*

*Transfer Student Addictions Counseling Bachelor of Science Degree: 60.0 credits*

### Requirements

Freshmen applying to this concentration will complete the general education requirements listed below in the College of Nursing and Health Professions during their first two years of study before advancing to the core courses in either of this program's concentrations. Transfer students seeking junior-year entry are expected to have already completed most or all of these general education requirements

College Requirements and and General Two-Year Transfer Requirements		Credits
<a href="#">ENGL 101S</a>	Composition and Literature I	3.0
<a href="#">ENGL 102S</a>	Composition and Literature II	3.0
<a href="#">CMPS 125S</a>	Computer Studies or Communications elective	3.0
or		
<a href="#">SPCH 213S</a>		
<a href="#">MATH 102S</a>	College Mathematics (or higher)	3.0
or		
<a href="#">STAT 344S</a>	Statistics for Behavioral Science	
<a href="#">BIOL 201S</a>	General Biology I	3.0 - 4.0
or		
<a href="#">CHEM 201S</a>	General Chemistry I	
or		
	Natural Science elective	
	Humanities and Social Science electives	21.0
	General electives	24.0

### Foundation Requirements

<a href="#">ADCS 342S</a>	Foundations of Behavioral Health Care	
<a href="#">ADCS 364S</a>	Life-Span Human Development	
<a href="#">ADCS 360S</a>	Behavioral Disorders	
<a href="#">ADCS 322S</a>	Theory and Practice of Counseling	
<a href="#">ADCS 344S</a>	Multicultural Counseling Perspectives	

### Addictions Counseling Sciences Core

<a href="#">ADCS 312S</a>	Introduction to Addictive Disorders	3.0
<a href="#">ADCS 332S</a>	Psychopharmacology for Counselors	3.0
<a href="#">ADCS 362S</a>	Ethics and Professional Responsibility	3.0
<a href="#">ADCS 365S</a>	Assessment and Treatment Planning	3.0

<a href="#">ADCS 402S</a>	<b>Cognitive-Behavioral Counseling I</b>	3.0
<a href="#">ADCS 404S</a>	<b>Cognitive-Behavioral Counseling II</b>	3.0
<a href="#">ADCS 410S</a>	<b>Group Counseling I</b>	3.0
<a href="#">ADCS 411S</a>	<b>Group Counseling II</b>	3.0
<a href="#">ADCS 408S</a>	<b>Recovery and Relapse Prevention Methods</b>	3.0
<a href="#">ADCS 412S</a>	<b>Case Management Methods</b>	3.0
<a href="#">ADCS 440S</a>	<b>Senior Practicum</b>	3.0

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**Addictions Counseling Concentration Electives**

**12.0  
Credits**

Choose any four courses from the General Electives listed below (or from the [Behavioral Counseling Sciences](#) concentration core and electives)

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**General Electives**

<a href="#">BCS 391S</a>	<b>Child Psychopathology</b>	3.0
<a href="#">BCS 390S</a>	<b>Independent Study</b>	3.0
<a href="#">ADCS 401S</a>	<b>Forensic Mental Health Services</b>	3.0
<a href="#">ADCS 367S</a>	<b>Addictions Counseling Interventions</b>	3.0
<a href="#">ADCS 368S</a>	<b>Addictions Counseling with Special Populations</b>	3.0
<a href="#">ADCS 414S</a>	<b>Co-occurring Disorders</b>	3.0
<a href="#">ADCS 406S</a>	<b>Senior Case Seminar</b>	3.0





# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Addictions Counseling Sciences

*Bachelor of Science Degree 120.0 credits*

### Recommended Plan of Study: Four-Year Curriculum

#### *Freshman year*

Term 1		Credits
<a href="#">CMPS 125S</a>	Computer Applications	3.0
<a href="#">ENGL 101S</a>	Composition and Literature I	3.0
<a href="#">FINA 101S</a>	Art History to 1350	3.0
<a href="#">PLSC 101S</a>	American National Government	3.0
<b>Total credits</b>		<b>12.0</b>

Term 2		Credits
<a href="#">ENGL 102S</a>	Composition and Literature II	3.0
<a href="#">HIST 111S</a>	History of Western Civilization I	3.0
<a href="#">PHIL 101S</a>	Introduction to Philosophy	3.0
<a href="#">MATH 102S</a>	College Mathematics	3.0
or		
<a href="#">MATH 112S</a>	College Algebra	
<a href="#">SOC 115S</a>	Introduction to Sociology	3.0
<b>Total credits</b>		<b>15.0</b>

#### *Sophomore year*

Term 3		Credits
<a href="#">ENGL 325S</a>	Literature and Psychology	3.0
<a href="#">HIST 203S</a>	History of Science	3.0
<a href="#">PSYC 101S</a>	Introduction to Psychology	3.0
<a href="#">SOC 217S</a>	Social Psychology	3.0
Free elective		3.0
<b>Total credits</b>		<b>15.0</b>

Term 4		Credits
<a href="#">ANTH 330S</a>	Cultural Anthropology	3.0
<a href="#">PSYC 319S</a>	Life-Span Human Development	3.0
<a href="#">SPCH 213S</a>	Public Speaking	3.0
Two free electives		6.0
<b>Total credits</b>		<b>15.0</b>

*Junior year*

<b>Term 5</b>		<b>Credits</b>
<a href="#">ADCS 322S</a>	Theory and Practice of Counseling	3.0
<a href="#">ADCS 342S</a>	Foundations of Behavioral Health Care	3.0
<a href="#">ADCS 360S</a>	Behavioral Disorders	3.0
<a href="#">ADCS 312S</a>	Introduction to Addictive Disorders	3.0
	Program elective	3.0
	<b>Total credits</b>	<b>15.0</b>

<b>Term 6</b>		<b>Credits</b>
<a href="#">ADCS 332S</a>	Psychopharmacology for Counselors	3.0
<a href="#">ADCS 362S</a>	Ethics and Professional Responsibility	3.0
<a href="#">ADCS 365S</a>	Assessment and Treatment Planning	3.0
<a href="#">ADCS 344S</a>	Multicultural Counseling Perspectives	3.0
	Program elective	3.0
	<b>Total credits</b>	<b>15.0</b>

*Senior year*

<b>Term 7</b>		<b>Credits</b>
<a href="#">ADCS 402S</a>	Cognitive-Behavioral Counseling I	3.0
<a href="#">ADCS 410S</a>	Group Counseling I	3.0
<a href="#">ADCS 412S</a>	Case Management Methods	3.0
<a href="#">ADCS 408S</a>	Recovery and Relapse Prevention Methods	3.0
	Free elective	3.0
	<b>Total credits</b>	<b>15.0</b>

<b>Term 8</b>		<b>Credits</b>
<a href="#">ADCS 404S</a>	Cognitive-Behavioral Counseling II	3.0
<a href="#">ADCS 411S</a>	Group Counseling II	3.0
<a href="#">ADCS 440S</a>	Senior Practicum	3.0
	Two free electives	6.0
	<b>Total credits</b>	<b>15.0</b>



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Addictions Counseling Sciences

*Bachelor of Science Degree 60.0 credits*

### Recommended Plan of Study: Two-year Transfer Option

#### *Junior year*

Term 1	Credits
<a href="#">ADCS 322S</a> Theory and Practice of Counseling	3.0
<a href="#">ADCS 342S</a> Foundations of Behavioral Health Care	3.0
<a href="#">ADCS 360S</a> Behavioral Disorders	3.0
<a href="#">ADCS 312S</a> Introduction to Addictive Disorders	3.0
Program elective	3.0
<b>Total credits</b>	<b>15.0</b>

Term 2	Credits
<a href="#">ADCS 332S</a> Psychopharmacology for Counselors	3.0
<a href="#">ADCS 364S</a> Life-Span Human Development	3.0
<a href="#">ADCS 365S</a> Assessment and Treatment Planning	3.0
<a href="#">ADCS 344S</a> Multicultural Counseling Perspectives	3.0
Program elective	3.0
<b>Total credits</b>	<b>15.0</b>

#### *Senior year*

Term 3	Credits
<a href="#">ADCS 402S</a> Cognitive-Behavioral Counseling I	3.0
<a href="#">ADCS 410S</a> Group Counseling I	3.0
<a href="#">ADCS 412S</a> Case Management Methods	3.0
<a href="#">ADCS 408S</a> Recovery and Relapse Prevention Methods	3.0
Free elective	3.0
<b>Total credits</b>	<b>15.0</b>

Term 4	Credits
<a href="#">ADCS 404S</a> Cognitive-Behavioral Counseling II	3.0
<a href="#">ADCS 411S</a> Group Counseling II	3.0
<a href="#">ADCS 440S</a> Senior Practicum	3.0
<a href="#">ADCS 362S</a> Ethics and Professional Responsibility	3.0
Free elective	3.0
<b>Total credits</b>	<b>15.0</b>



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op Programs](#) [Policies](#)

## Cardiovascular Perfusion Technology

Perfusionists apply their knowledge of the cardiopulmonary system and complex technology to the task of maintaining life during cardiac surgery. They prepare and operate the heart-lung machine and other equipment that replaces normal heart and lung functions during surgery.

In addition to becoming knowledgeable about this equipment, students in the [Cardiovascular Perfusion Technology](#) program learn to interpret patients' medical histories and lab results, develop plans to conduct perfusion, implement the selection and interpretation of appropriate diagnostic tests, and learn to administer blood products and pharmacological agents. The perfusionist's role during cardiovascular bypass for elective heart surgery is highlighted, as are responsibilities in other clinical areas, including neurosurgery, organ and limb preservation, blood salvage and recovery, and transplantation.

### Admission Requirements

- High school graduate or GED
- Official copy of high school transcript(s)
- Official copy of college transcript(s)
- Minimum college GPA of 2.5
- Three references from individuals who have known the applicant in a working or educational situation. If possible, one reference should be from a perfusionist; and interview at the applicant's expense.

### Additional Requirements:

The program is an extremely intense 21-month course that requires personal and financial sacrifices and demands a high degree of integrity, self-sufficiency, motivation, discipline and highly developed study skills. Enrolled students will be expected to live in the metropolitan Philadelphia area and may need to be available nights, weekends and holidays, based on the rigors of the surgical schedule.

### Curriculum

The 21-month curriculum is designed for students who have already completed two or more years of college. Upon graduation, students are awarded the Bachelor of Science (B.S.) degree. The first semester is spent primarily in classroom instruction, while the remainder of the program focuses on clinical experience. Clinical rotation sites perform more than 2,000 cardiac surgeries annually, giving students the opportunity for a high volume of clinical work. More than half of the required semester hours are in clinical practice. The program is accredited by the [Commission on Accreditation of Allied Health Education Programs](#) (CAAHEP).

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Cardiovascular Perfusion Technology

*Bachelor of Science Degree: 132.0 credits*

### Prerequisites

Students with a minimum of 60 credits may enter this program, based on their completion of the following core prerequisites:

Core Prerequisites	Credits
<b>English (one semester must be composition)</b>	6.0
<b>Mathematics (college-level algebra or higher)</b>	3.0
<b>Physics (preferably for health sciences)</b>	3.0
<b>General Biology</b>	8.0
<b>General Chemistry</b>	8.0
<b>Anatomy and Physiology</b>	8.0
<b>Social Science (history, political science, economics, psychology, sociology, anthropology)</b>	12.0
<b>Humanities* (languages, philosophy, non-dogmatic theology and theory courses in fine arts and music)</b>	3.0
<b>Computer Science</b>	3.0
<b>Medical Ethics</b>	3.0
<b>Free elective</b>	3.0
<b>Total</b>	<b>60.0</b>

\* Note: Studio courses in art and music do not satisfy the humanities requirement.

### Admission Requirements

- High school graduate or GED
- Official copy of high school transcript(s)
- Official copy of college transcript(s)
- Minimum college GPA of 2.5
- Three references from individuals who have known the applicant in a working or educational situation. If possible, one reference should be from a perfusionist; and interview at the applicant's expense.

### Additional Requirements:

The program is an extremely intense 21-month course that requires personal and financial sacrifices and demands a high degree of integrity, self-sufficiency, motivation, discipline and highly developed study skills. Enrolled students will be expected to live in the metropolitan Philadelphia area and may need to be available nights, weekends and holidays, based on the rigors of the surgical schedule.



# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Cardiovascular Perfusion Technology

*Bachelor of Science Degree 132.0 credits*

### Recommended Plan of Study: 21-month Curriculum

First semester		Credits
<a href="#">CVPT 101S</a>	Perfusion Technology I	4.0
<a href="#">CVPT 289S</a>	Cardiac Anatomy and Physiology	4.0
<a href="#">CVPT 293S</a>	Basic Surgery and Monitoring	2.0
<a href="#">CVPT 320S</a>	Physiologic Management of the Bypass	3.0

Second semester		Credits
<a href="#">CVPT 295S</a>	Clinical Practicum I	8.0
<a href="#">CVPT 310S</a>	Perfusion Technology II	4.0
<a href="#">CVPT 330S</a>	Cardiovascular Pathology	4.0
<a href="#">CVPT 340S</a>	Cardiovascular Pharmacology	3.0

Third semester		Credits
<a href="#">CVPT 300S</a>	Clinical Practicum II	12.0

Fourth semester		Credits
<a href="#">CVPT 305S</a>	Pediatric Clinical Practicum	2.0
<a href="#">CVPT 307S</a>	Clinical Practicum III	12.0

Fifth semester		Credits
<a href="#">CVPT 350S</a>	Clinical Practicum IV	12.0
<a href="#">CVPT 360S</a>	Cardiac Surgical Practicum	2.0

In addition, an independent research paper pertaining to cardiothoracic surgery is required. Examples of two recent projects are the management of diabetic patients undergoing open-heart surgery and experimental animal research with mechanical heart-assist devices.



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Emergency Medical Services

The undergraduate Emergency Medical Services (EMS) program provides two educational tiers, giving students the option of following an associate or a bachelor's degree track. Throughout the program, students learn to provide competent clinical prehospital care to the ill or injured, to master skills and concepts essential to the coordination and management of EMS systems, and to interact effectively with other health care professionals and patients.

While laying the foundation for graduate-level endeavors, the program also prepares students to analyze important public-policy issues that confront both prehospital emergency medical services and the emerging network of EMS systems and to combine theoretical and practical experience and knowledge of health care as it applies to EMS.

Accredited by the Pennsylvania Department of Health, Drexel University's program complies with the Commonwealth of Pennsylvania's EMS guidelines. The paramedic curriculum exceeds the National Standard Curriculum as accepted by the National Highway Traffic Safety Administration in 1998.

Two degrees are available:

- [Associate in Science Degree](#)
- [Bachelor of Science Degree](#)

### Curricula

Each degree track offers a traditional option, in which EMTs complete all necessary paramedic certification and degree coursework at Drexel University, and a completion option, in which certified EMT-Ps and recognized prehospital RNs can challenge for clinical credits and complete remaining degree coursework at Drexel University. Many online courses are being developed to allow off-site completion of the program.

Each degree track offers both a full-time and part-time option. The part-time program is designed for the person who wants to obtain their associate's or bachelor's degree as well as their paramedic certification but cannot attend a traditional program because of lifestyle and scheduling conflicts.

The flexible part-time option allows students to take courses that combine [distance education](#) and live classroom interaction. Via computer, the student will access daily didactic information such as lectures, videos, and reading assignments; hold online discussions; and take quizzes. Courses with a clinical lab component will require the student to attend a weekend of intensive skill learning, practice, and testing once a month. Clinical and field rotations are conveniently scheduled throughout the program. It should be noted that certain courses are sequenced to enhance the learning experience of the student.

For additional information about part-time options, please contact the EMS department.

**Accreditation**

In the Emergency Medical Services (EMS) Program, the clinical portion is accredited by the Pennsylvania Department of Health, Office of EMS. The EMS Program is also accredited by the American Heart Association, Emergency Cardiovascular Care Programs as a community training center to offer those specialized courses.





# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## Emergency Medical Services

### *Traditional Program, Associate in Science Degree*

The traditional associate degree program prepares students to take the EMT-P certification examination. Clinical education is combined with investigation of specific EMS and health care management issues as well as a broad base of science and liberal arts courses. Five semesters of work are required to complete this degree. Clinical and field rotations are included throughout the two years. Although most students complete the clinical program on a full-time basis, a part-time process is being developed.



# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Emergency Medical Services

Associate in Science Degree: 72.0 credits

### Plan of Study for the Traditional A.S. Program

*First year*

Fall	Credits
<a href="#">ANAT 130S</a> Anatomy and Physiology I	4.0
<a href="#">EMS 104S</a> Disease Processes I	2.0
<a href="#">EMS 108S</a> Prehospital Field Techniques I	1.0
<a href="#">EMS 112S</a> Professional Issues in EMS	1.0
<a href="#">EMS 210S</a> EMS Management I	3.0
<a href="#">(EMS 100S)</a> Principles of Emergency Care (If the student is not already a certified EMT)	(4.0)
Social Science or Humanities elective	3.0
College Mathematics	3.0
<b>Total credits</b>	<b>17.0</b>

Spring	Credits
<a href="#">ANAT 131S</a> Anatomy and Physiology II	4.0
<a href="#">EMS 103S</a> Advanced Assessment	3.0
<a href="#">EMS 107S</a> Disease Processes II	2.0
<a href="#">EMS 109S</a> Prehospital Field Techniques II	2.0
<a href="#">EMS 301S</a> EMS Management II	4.0
Social Science or Humanities elective	3.0
<b>Total credits</b>	<b>18.0</b>

*Second year*

Fall	Credits
<a href="#">EMS 201S</a> Emergency Care Analysis and Intervention I	5.0
<a href="#">EMS 202S</a> Emergency Care Analysis and Intervention Lab I	4.0
<a href="#">EMS 115S</a> Pharmacology	3.0
<a href="#">ENGL 101S</a> Composition and Literature I	3.0
<b>Total credits</b>	<b>15.0</b>

Spring	Credits
<a href="#">EMS 125S</a> Field Practicum I	3.0
<a href="#">EMS 203S</a> Emergency Care Analysis and Intervention II	5.0
<a href="#">EMS 206S</a> Emergency Care Analysis and Intervention Lab II	5.0

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<a href="#">ENGL 102S</a>	<b>Composition and Literature II</b>	3.0
<b>Total credits</b>		16.0

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<b>Summer Semester</b>		<b>Credits</b>
<a href="#">EMS 226S</a>	<b>Field Practicum II</b>	6.0
<b>Total credits</b>		6.0

---



[Home](#)  
[Contents](#)  
[Index](#)  
[E-mail](#)  
[Search](#)  
[Admissions](#)

# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## Emergency Medical Services

*Completion Program, Associate in Science Degree*

The completion program for the associate degree allows paramedics, who have state or National Registry certification, and recognized prehospital RNs to show evidence of equivalent clinical coursework in order to receive credit for their previous clinical certifications by way of an Advanced Life Support competency examination. These students then complete the remaining courses to receive the associate degree. The EMS core courses are specific to Drexel University and must be completed here. Transfer of the other courses is acceptable with a grade of C or higher.



[Home](#)  
[Contents](#)  
[Index](#)  
[E-mail](#)  
[Search](#)  
[Admissions](#)

# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## Emergency Medical Services

*Traditional Program, Bachelor of Science Degree*

Building on the first five semesters, the upper years concentrate on additional management, research, and administration knowledge with applied practica to enhance students' abilities. A required full-semester internship allows students to concentrate on an area of interest and specialization. Students can complete the B. S. degree as a continuous four-year sequence or on a part-time schedule for years three and four.

Internship examples include various regional EMS councils, flight programs, the Federal Emergency Management Agency, OSHA, EMS operational systems, Delaware State Police, and hospital emergency departments.

A nonclinical option is available for those interested in EMS education, management, and administration. This option is directed toward those who have had previous experience in other aspects of EMS and want additional education specific to health care management. EMT certification is a prerequisite.

Please contact the program director for further information.



# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Emergency Medical Services

*Bachelor of Science Degree: 132.0 credits*

### Plan of Study for the Traditional B.S. Program

*First year*

Fall	Credits
<a href="#">ANAT 130S</a> Anatomy and Physiology I	4.0
<a href="#">EMS 104S</a> Disease Processes I	2.0
<a href="#">EMS 108S</a> Prehospital Field Techniques I	1.0
<a href="#">EMS 112S</a> Professional Issues in EMS	1.0
<a href="#">EMS 210S</a> EMS Management I	3.0
<a href="#">(EMS 100S)</a> Principles of Emergency Care (If the student is not already a certified EMT)	(4.0)
Social Science or Humanities elective	3.0
College Mathematics	3.0
<b>Total credits</b>	<b>17.0</b>

Spring	Credits
<a href="#">ANAT 131S</a> Anatomy and Physiology II	4.0
<a href="#">EMS 103S</a> Advanced Assessment	3.0
<a href="#">EMS 107S</a> Disease Processes II	2.0
<a href="#">EMS 109S</a> Prehospital Field Techniques II	2.0
<a href="#">EMS 301S</a> EMS Management II	4.0
Social Science or Humanities elective	3.0
<b>Total credits</b>	<b>18.0</b>

*Second year*

Fall	Credits
<a href="#">EMS 201S</a> Emergency Care Analysis and Intervention I	5.0
<a href="#">EMS 202S</a> Emergency Care Analysis and Intervention Lab I	4.0
<a href="#">EMS 115S</a> Pharmacology	3.0
<a href="#">ENGL 101S</a> Composition and Literature I	3.0
<b>Total credits</b>	<b>15.0</b>

Spring	Credits
<a href="#">EMS 125S</a> Field Practicum I	3.0
<a href="#">EMS 203S</a> Emergency Care Analysis and Intervention II	5.0
<a href="#">EMS 206S</a> Emergency Care Analysis and Intervention Lab II	5.0
<a href="#">ENGL 102S</a> Composition and Literature II	3.0

<b>Total credits</b>	<b>16.0</b>
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<b>Summer Semester</b>	<b>Credits</b>
<a href="#">EMS 226S</a> Field Practicum II	6.0
<b>Total credits</b>	<b>6.0</b>

*Third year*

<b>Fall</b>	<b>Credits</b>
<a href="#">CMPS 305S</a> Advanced Computer Applications for Health Professions	3.0
<a href="#">EMS 205S</a> Instructional Issues in Emergency Health Services	3.0
<a href="#">STS 343S</a> Statistics for Physical Sciences	3.0
Two <a href="#">EMS elective</a> courses	6.0
<b>Total credits</b>	<b>15.0</b>

<b>Spring</b>	<b>Credits</b>
<a href="#">ECON 210S</a> Economics	3.0
<a href="#">ACCT 315S</a> Accounting and Budgeting for Health Care Professionals	3.0
Three <a href="#">EMS elective</a> courses	9.0
<b>Total credits</b>	<b>15.0</b>

*Fourth year*

<b>Fall</b>	<b>Credits</b>
<a href="#">RSCH 349S</a> Research and Experimental Design	3.0
Three <a href="#">EMS elective</a> courses	9.0
<b>Social Science or Humanities elective</b>	<b>3.0</b>
<b>Total credits</b>	<b>15.0</b>

<b>Spring</b>	<b>Credits</b>
<a href="#">EMS 355S</a> Internship	15.0
<b>Total credits</b>	<b>15.0</b>

[Top](#)



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Emergency Medical Services

*Completion Program, Bachelor of Science Degree*

The completion program allows certified paramedics or recognized prehospital RNs to show evidence of clinical competence through their current Advanced Life Support practice status and complete a competency examination to receive clinical course credits. Previous college credits are transferred as appropriate and required by each campus. Students then complete the EMS and required courses to meet University requirements. To complete the clinical courses, the challenge process will be used to obtain 30 credits when clinical competency is demonstrated.

### Part-Time Option

The part-time option for the bachelor's degree completion program allows certified paramedics and prehospital RNs to obtain their degree either through traditional classroom interaction or distance learning. Students will receive up to 30 credits for their clinical experience through a challenge exam. These credits will be used to cover the clinical courses in the first two years. Previously earned college credits with a grade of C or higher that equate to courses at the college of Nursing and Health Professions will be considered for transfer. Due to the uniqueness of the EMS core courses, students should plan on completing them at Drexel.

EMS core courses offered:

- EMS Management I
- EMS Management II
- Instructional Issues in Emergency Health Services
- Research and Experimental Design

EMS Electives:

- Concepts of Injury Prevention
- Utilization and Preparation of Instructional Materials
- Local, State, and Federal Legislation
- Issues and Problems in Health Care Delivery
- Practical Safety Services
- Special Topics in EMS
- Critical Incident and Stress Management
- Planning and Fiscal Approaches
- Hazardous Materials Response
- Response to Terrorism
- Internship



### **Prehospital RN Program**

The Prehospital RN program is available for RNs interested in expanding their experience to the prehospital area. This two-semester program is conducted from January to August each year and follows Pennsylvania Department of Health guidelines. Clinical and field rotations are required. Prerequisites include a current Pennsylvania RN license and a current CPR card.

### **Admission Requirements**

High school-level mathematics, English, and basic sciences will provide a foundation for college-level work. Weakness in any of these areas should be evaluated by the applicant and additional coursework completed if necessary. The curriculum is demanding so a solid start is essential. Applicants must forward to the Admissions Office:

- Official high school transcript(s) or GED records
- Previous college transcript(s) if applicable
- SAT or ACT scores unless they have earned 30 semester hours of college work with a grade of C or higher at the time of application
- Current CPR course completion by the beginning of the first semester

EMT certification provides a foundation for the development of more advanced EMS skills and knowledge. When applicants are not already certified EMTs, they must complete the EMT course in the first semester and complete the state certification process in order to continue in the EMS program.

Applicants for the clinical paramedic program must meet all Pennsylvania Department of Health requirements for criminal history clearance, age, and ability to complete the functional job description. The ability to sit for the state certification examination rests on successful course completion, validation by the program medical director of the student's knowledge and skills abilities, and clearance from the Office of EMS regarding the above factors.

The program may interview applicants as admissions files become complete. Admissions are on a continuous review basis; it is recommended that clinical students begin in the fall semester for appropriate course sequencing.



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## Health and Society Degree-Completion Program

This program, which consists of 60 semester credits, is designed for the individual who has already earned at least 15 semester credits, a certificate, or a diploma in an approved health-sciences discipline and who wishes to complete a broad-based Associate in Science degree on a full-time or part-time basis. (Individuals with fewer than 15 transferable semester credits in health sciences may consider this program if these individuals plan to complete the 15 credits by taking any of the medical billing and coding courses currently offered in the program.)

Students enrolled in the program choose from a wide array of interdisciplinary daytime and evening courses, including [online courses](#). Depending on the number of transfer credits, students can elect to complete the program entirely online. A maximum of 45 semester credits can be transferred, including block credits from approved hospital-based certificate and diploma programs.

For more information, visit the [Health and Society Degree-Completion](#) page at the College of Nursing and Health Professions web site.



Home  
 Contents  
 Index  
 E-mail  
 Search  
 Admissions

# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science  
and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science  
and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Health and Society Degree-Completion Program

*Associate in Science Degree: 60.0 credits*

Requirements	Credits
ENGL 101 <b>Composition and Literature I</b>	3.0
ENGL 102 <b>Composition and Literature II</b>	3.0
<b>Humanities*/social sciences electives**</b>	6.0
<b>Natural-sciences elective***</b>	3.0
<b>Health-sciences electives**** (must be completed prior to admission, with the exception of the Program's billing and coding courses)</b>	15.0
<b>General electives</b>	30.0
<b>Total</b>	<b>60.0</b>

\* Humanities electives include approved courses in communications, ethics, fine arts, folklore, languages, literature, music, mythology, philosophy, religion, speech, theater, and theology, as well as other approved humanities courses. (Courses used to fulfill the Composition and Literature I and II requirements will not count as humanities electives.)

\*\* Social-sciences electives include approved courses in addictions counseling, anthropology, archeology, behavioral counseling, economics (introductory), environmental studies, geography, history, management (introductory), mental-health sciences, political science, psychology, and sociology, as well as other approved social-sciences courses.

\*\*\* Natural-sciences electives include approved courses in anatomy, astronomy, biochemistry, biology, botany, cell and molecular biology, chemistry, genetics, geology, meteorology, microbiology, neurobiology, oceanography, pathophysiology, physics, physiology, and zoology, as well as other approved natural-sciences courses.

\*\*\*\* Health-sciences electives include approved courses in cardiovascular perfusion technology, clinical laboratory sciences, medical billing/coding/records, nursing, physician-assistant studies, radiologic technology, and respiratory therapy, as well as other approved health-sciences disciplines.



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## Health and Society B.S. Degree-Completion Program

This program, which consists of 120 semester credits, is designed for the individual who already holds a certificate, diploma, or associate degree in an approved health-sciences discipline and who wishes to complete a broad-based interdisciplinary-studies Bachelor of Science degree on a full-time or part-time basis for career enhancement or employment. (Individuals who have already earned at least 30 semester credits in health sciences, yet not holding certificates, diplomas, or associate degrees in health sciences, may also apply. Individuals who have previously earned at least 12 credits in health sciences may apply only if these individuals plan to complete the 30 credits of health sciences electives by taking any of the medical billing and coding courses offered in the program.)

Students enrolled in the program choose from a wide array of interdisciplinary daytime and evening courses, including [online courses](#). Depending on the number of transfer credits, students can elect to complete the program entirely online. A maximum of 90 semester credits can be transferred, including block credits from approved hospital-based certificate and diploma programs. (Internal transfer students must take a minimum of 15 credits in the program.)

For more information, visit the [Health and Society Degree-Completion Program](#) page at the College of Nursing and Health Professions web site.



# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Health and Society Degree-Completion Program

*Bachelor of Science Degree: 120.0 credits*

Requirements	Credits
ENGL 101 <b>Composition and Literature I</b>	3.0
ENGL 102 <b>Composition and Literature II</b>	3.0
<b>Computer studies or communication elective</b>	3.0
<b>College Mathematics (or higher) or statistics</b>	3.0
<b>Humanities*/social sciences electives**</b>	18.0
<b>Natural-sciences electives***</b>	6.0
<b>Health-sciences electives**** (must be completed prior to admission with the exception of the Program's billing and coding courses)</b>	30.0
<b>General electives</b>	54.0
<b>Total</b>	<b>120.0</b>

\* Humanities electives include approved courses in communications, ethics, fine arts, folklore, languages, literature, music, mythology, philosophy, religion, speech, theater, and theology, as well as other approved humanities courses. (Courses used to fulfill the Composition and Literature I and II requirements will not count as humanities electives.)

\*\* Social-sciences electives include approved courses in addictions counseling, anthropology, archeology, behavioral counseling, economics (introductory), environmental studies, geography, history, management (introductory), mental-health sciences, political science, psychology, and sociology, as well as other approved social-sciences courses.

\*\*\* Natural-sciences electives include approved courses in anatomy, astronomy, biochemistry, biology, botany, cell and molecular biology, chemistry, genetics, geology, meteorology, microbiology, neurobiology, oceanography, pathophysiology, physics, physiology, and zoology, as well as other approved natural-sciences courses.

\*\*\*\* Health-sciences electives include approved courses in cardiovascular perfusion technology, clinical laboratory sciences, medical billing/coding/records, nursing, physician-assistant studies, radiologic technology, and respiratory therapy, as well as other approved health-sciences disciplines.



[Home](#)  
[Contents](#)  
[Index](#)  
[E-mail](#)  
[Search](#)  
[Admissions](#)

# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## Pathway to Health Professions

The [Pathway to Health Professions](#) programs offer science-based curricula for those wishing to major in the natural sciences for employment purposes or for entrance into applicable undergraduate, graduate, or professional programs or schools related to health care.

Although the programs emphasize the biomedical sciences, they seek to integrate scientific knowledge with the perspectives of the humanities and social sciences to provide students with a comprehensive background necessary for responding to the rapidly changing demands of today's health care delivery system.

An honors program has been designed for qualified individuals with strong backgrounds in the natural sciences and mathematics and with interests in careers in medicine, optometry, podiatry, dentistry, pharmacy, or physical therapy.

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science  
and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science  
and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Health Sciences

*Associate in Science Degree: 60.0 credits*

Requirements	Semester Hours
<b>Composition and literature</b>	6.0
<b>Computer studies</b>	3.0
<b>College mathematics or higher</b> (May include statistics)	3.0
<b>Natural science electives*</b>	20.0
<b>Humanities electives***</b>	9.0
<b>Social science electives***</b>	9.0
<b>Open electives</b>	10.0
	<b>60.0</b>

**See Electives for more information.**

### Electives

\* Humanities electives include approved courses in ethics, fine arts, folklore, languages, literature, music, mythology, philosophy, religion, speech, and theater. (Courses used to fulfill the composition and literature requirement will not count as humanities electives.)

\*\*Natural science and health science electives include approved courses in biology, chemistry, and physics and advanced anatomy, biochemistry, cell and molecular biology, cross-sectional anatomy, developmental anatomy, genetics, human physiology, medical microbiology, neurobiology, pathophysiology, and physiology.

\*\*\*Social science electives include approved courses in anthropology, archaeology, environmental studies, geography, history, political science, psychology, and sociology. With the approval of the program director, three semester hours of accounting, administration, business, economics, finance, law, management, or marketing may be used in place of a three-semester-hour social science elective for the bachelor's degree program.

### Pre-Physician's Assistant Requirements

Pre-PA students must take Biology I and II, General Chemistry I, General Chemistry II or Medical Microbiology (with lab), and Anatomy & Physiology I and II as natural science electives, Critical Thinking and Ethics & Medicine as Humanities electives and Introductory Psychology (including Developmental Psychology or Human Growth & Development) and Abnormal Psychology as social science electives.

Pre-PT students must take six semester hours of psychology as social science or open electives.

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Health Sciences

*Associate in Science Degree 60.0 credits*

### Recommended Plan of Study: Four-Year Curriculum

#### *First year*

Fall		Credits
<a href="#">ENGL 101S</a>	Composition and Literature I	3.0
<a href="#">BIOL 201S</a>	General Biology I	4.0
<a href="#">CHEM 201S</a>	General Chemistry I	4.0
<a href="#">MATH 102S</a>	College Mathematics	3.0
<b>Total credits</b>		<b>14.0</b>

Spring		Credits
<a href="#">ENGL 102S</a>	Composition and Literature II	3.0
<a href="#">BIOL 202S</a>	General Biology II	4.0
<a href="#">MCRB 208S</a>	Medical Microbiology	4.0
<a href="#">PHIL 107S</a>	Ethics and Medicine	3.0
<a href="#">SPCH 213S</a>	Public Speaking	3.0
<b>Total credits</b>		<b>17.0</b>

#### *Second year*

Fall		Credits
<a href="#">ANAT 130S</a>	Anatomy and Physiology I	4.0
<a href="#">BIOL 314S</a>	Developmental Biology	4.0
<a href="#">HUMN 314S</a>	Medicine and the Arts	3.0
<a href="#">PHIL 325S</a>	Critical Thinking	3.0
<a href="#">PSY 101S</a>	Introduction to Psychology	3.0
<b>Total credits</b>		<b>17.0</b>

Spring		Credits
<a href="#">ANAT 131S</a>	Anatomy and Physiology II	4.0
<a href="#">ANAT 202S</a>	Cross-Sectional Anatomy	2.0
<a href="#">CMPS 125S</a>	Computer Applications	3.0
<a href="#">PSY 200S</a>	Abnormal Psychology	3.0
<b>Total credits</b>		<b>12.0</b>





# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science  
and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science  
and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Health Sciences

*Bachelor of Science Degree: 120.0 credits*

Requirements	Semester Hours
<b>Composition and literature</b>	6.0
<b>Computer studies</b>	3.0
<b>College mathematics or higher</b> (May include statistics)	6.0
<b>Natural science electives*</b>	40.0
<b>Humanities electives***</b>	18.0
<b>Social science electives***</b>	18.0
<b>Open electives</b>	29.0
	<b>120.0</b>

**See Electives for more information.**

### Electives

\* Humanities electives include approved courses in ethics, fine arts, folklore, languages, literature, music, mythology, philosophy, religion, speech, and theater. (Courses used to fulfill the composition and literature requirement will not count as humanities electives.)

\*\*Natural science and Health science electives include approved courses in biology, chemistry, and physics and advanced anatomy, biochemistry, cell and molecular biology, cross-sectional anatomy, developmental anatomy, genetics, human physiology, medical microbiology, neurobiology, pathophysiology, and physiology.

\*\*\*Social science electives include approved courses in anthropology, archaeology, environmental studies, geography, history, political science, psychology, and sociology. With the approval of the program director, three semester hours of accounting, administration, business, economics, finance, law, management, or marketing may be used in place of a three-semester-hour social science elective for the bachelor's degree program.

### Pre-Physician's Assistant Requirements

Pre-PA students must take Biology I and II, General Chemistry I, General Chemistry II or Medical Microbiology (with lab), and Anatomy & Physiology I and II as natural science electives, Critical Thinking and Ethics & Medicine as Humanities electives and Introductory Psychology (including Developmental Psychology or Human Growth & Development) and Abnormal Psychology as social science electives.

Pre-PT students must take six semester hours of psychology as social science or open electives.

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## HealthSciences

*Bachelor of Science Degree 120.0 credits*

### Recommended Plan of Study: Four-Year Curriculum

#### *First year*

Fall		Credits
<a href="#">ENGL 101S</a>	Composition and Literature I	3.0
<a href="#">BIOL 201S</a>	General Biology I	4.0
<a href="#">CHEM 201S</a>	General Chemistry I	4.0
<a href="#">MATH 102S</a>	College Mathematics	3.0
<b>Total credits</b>		<b>14.0</b>

Spring		Credits
<a href="#">ENGL 102S</a>	Composition and Literature II	3.0
<a href="#">BIOL 202S</a>	General Biology II	4.0
<a href="#">CHEM 203S</a>	General Chemistry II	4.0
<a href="#">PHIL 107S</a>	Ethics and Medicine	3.0
<b>Total credits</b>		<b>14.0</b>

#### *Second year*

Fall		Credits
<a href="#">ANAT 130S</a>	Anatomy and Physiology I	4.0
<a href="#">CHEM 315S</a>	Organic Chemistry I	5.0
<a href="#">PHYS 325S</a>	General Physics I	5.0
<a href="#">PSY 101S</a>	Introduction to Psychology	3.0
<b>Total credits</b>		<b>17.0</b>

Spring		Credits
<a href="#">ANAT 131S</a>	Anatomy and Physiology II	4.0
<a href="#">CHEM 316S</a>	Organic Chemistry II	5.0
<a href="#">PHYS 326S</a>	General Physics II	5.0
<a href="#">PSY 200S</a>	Abnormal Psychology	3.0
<b>Total credits</b>		<b>17.0</b>

#### *Third year*

Fall		Credits
<a href="#">BIOC 334S</a>	Biochemistry	4.0

<a href="#">PHGY 325S</a>	Physiology	3.0
<a href="#">CMPS 125S</a>	Computer Applications	3.0
<a href="#">MATH 112S</a>	Algebra and Trigonometry	3.0
<a href="#">PHIL 325S</a>	Critical Thinking	3.0
<b>Total credits</b>		<b>16.0</b>

<b>Spring</b>		<b>Credits</b>
<a href="#">ANAT 202S</a>	Cross-Sectional Anatomy	2.0
<a href="#">BIOL 314S</a>	Developmental Biology	4.0
<a href="#">HUMN 314S</a>	Medicine and the Arts	3.0
<a href="#">PHGY 382S</a>	Pathophysiology	3.0
<a href="#">PSY 319S</a>	Human Growth and Development	3.0
<b>Total credits</b>		<b>15.0</b>

*Fourth year*

<b>Fall</b>		<b>Credits</b>
<a href="#">ANAT 420S</a>	Advanced Anatomy	4.0
<a href="#">BIOL 324S</a>	Cell and Molecular Biology	4.0
<a href="#">ENGL 206S</a>	Drama	3.0
<a href="#">PHIL 311S</a>	Values and Health Professions	3.0
<b>Total credits</b>		<b>14.0</b>

<b>Spring</b>		<b>Credits</b>
<a href="#">BIOL 325S</a>	Genetics	4.0
<a href="#">SOC 115S</a>	Introduction to Sociology	3.0
<a href="#">ENGL 325S</a>	Literature and Psychology	3.0
<a href="#">ECON 310S</a>	Economics	3.0
<a href="#">SPCH 213S</a>	Public Speaking	3.0
<b>Total credits</b>		<b>16.0</b>



[Home](#)  
[Contents](#)  
[Index](#)  
[E-mail](#)  
[Search](#)  
[Admissions](#)

# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## Health Sciences Honors Program

The Health Sciences Honors program is a bachelor of science (B.S.) degree designed for individuals with strong backgrounds in the natural sciences and mathematics and with interests in extensive exposure to the biomedical sciences for entrance into professional schools and graduate programs for careers in medicine, dentistry, optometry, podiatry, pharmacy and physical therapy.

For continued enrollment in the Health Sciences Honors program, a student must maintain a cumulative GPA of 3.25.



# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Health Sciences

*Bachelor of Science Honors Degree: 132.0 credits*

Requirements	Semester Hours
<b>Composition and literature</b>	6.0
<b>Computer studies</b>	3.0
<b>Mathematics</b>	11.0
Precalculus	
Calculus I	
Statistics for Physical Sciences	
<b>Natural sciences*</b>	44.0
General Biology I and II (plus labs)	
General Chemistry I and II (plus labs)	
Anatomy and Physiology I and II	
Organic Chemistry I and II (plus labs)	
General Physics I and II	
<b>Health science electives**</b>	16.0
<b>Humanities electives***</b>	18.0
Critical Thinking	
Ethics and Medicine	
<b>Social science electives***</b>	18.0
<b>Open electives</b>	16.0
	<b>132.0</b>

**See Electives for more information.**

### Electives

\* Humanities electives include approved courses in ethics, fine arts, folklore, languages, literature, music, mythology, philosophy, religion, speech, and theater. (Courses used to fulfill the composition and literature requirement will not count as humanities electives.)

\*\*Natural science and Health science electives include approved courses in biology, chemistry, and physics and advanced anatomy, biochemistry, cell and molecular biology, cross-sectional anatomy, developmental anatomy, genetics, human physiology, medical microbiology, neurobiology, pathophysiology, and physiology.

\*\*\*Social science electives include approved courses in anthropology, archaeology, environmental studies, geography, history, political science, psychology, and sociology. With the approval of the program director, three semester hours of accounting, administration, business, economics, finance, law, management, or

marketing may be used in place of a three-semester-hour social science elective for the bachelor's degree program.

**Pre-Physician's Assistant Requirements**

Pre-PA students must take Biology I and II, General Chemistry I, General Chemistry II or Medical Microbiology (with lab), and Anatomy & Physiology I and II as natural science electives, Critical Thinking and Ethics & Medicine as Humanities electives and Introductory Psychology (including Developmental Psychology or Human Growth & Development) and Abnormal Psychology as social science electives.

Pre-PT students must take six semester hours of psychology as social science or open electives.

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Health Sciences Honors Program

*Bachelor of Science Degree 132.0 credits*

### Recommended Plan of Study: Four-Year Curriculum

#### *First year*

Fall		Credits
<a href="#">ENGL 101S</a>	Composition and Literature I	3.0
<a href="#">BIOL 201S</a>	General Biology I	4.0
<a href="#">CHEM 201S</a>	General Chemistry I	4.0
<a href="#">PHIL 101S</a>	Introduction to Philosophy	3.0
<a href="#">PSY 101S</a>	Introduction to Psychology	3.0
<b>Total credits</b>		<b>17.0</b>

Spring		Credits
<a href="#">ENGL 102S</a>	Composition and Literature II	3.0
<a href="#">BIOL 202S</a>	General Biology II	4.0
<a href="#">CHEM 203S</a>	General Chemistry II	4.0
<a href="#">MATH 113S</a>	Precalculus	4.0
<a href="#">PHIL 107S</a>	Ethics and Medicine	3.0
<b>Total credits</b>		<b>18.0</b>

#### *Second year*

Fall		Credits
<a href="#">ANAT 130S</a>	Anatomy and Physiology I	4.0
<a href="#">CHEM 315S</a>	Organic Chemistry I	5.0
<a href="#">MATH 214S</a>	Calculus I	4.0
<a href="#">PHY 325S</a>	General Physics I	5.0
<b>Total credits</b>		<b>18.0</b>

Spring		Credits
<a href="#">ANAT 131S</a>	Anatomy and Physiology II	4.0
<a href="#">CHEM 316S</a>	Organic Chemistry II	5.0
<a href="#">PHYS 326S</a>	General Physics II	5.0
<a href="#">PSY 200S</a>	Abnormal Psychology	3.0
<b>Total credits</b>		<b>17.0</b>

#### *Third year*

<b>Fall</b>		<b>Credits</b>
<a href="#">BIOC 334S</a>	<b>Biochemistry</b>	4.0
<a href="#">PHGY 325S</a>	<b>Physiology</b>	3.0
<a href="#">STS 343S</a>	<b>Statistics I</b>	3.0
<a href="#">CMPS 125S</a>	<b>Computer Applications</b>	3.0
<a href="#">PHIL 325S</a>	<b>Critical Thinking</b>	3.0
<b>Total credits</b>		<b>16.0</b>

<b>Spring</b>		<b>Credits</b>
<a href="#">BIOL 314S</a>	<b>Developmental Biology</b>	4.0
<a href="#">HUMN 314S</a>	<b>Medicine and the Arts</b>	3.0
<a href="#">PHGY 382S</a>	<b>Pathophysiology</b>	3.0
<a href="#">PSY 319S</a>	<b>Human Growth and Development</b>	3.0
<a href="#">SPCH 213S</a>	<b>Public Speaking</b>	3.0
<b>Total credits</b>		<b>18.0</b>

*Fourth year*

<b>Fall</b>		<b>Credits</b>
<a href="#">ANAT 420S</a>	<b>Advanced Anatomy</b>	4.0
<a href="#">BIOL 324S</a>	<b>Cell and Molecular Biology</b>	4.0
<a href="#">ENGL 206S</a>	<b>Drama</b>	3.0
<a href="#">PHIL 311S</a>	<b>Values and Health Professions</b>	3.0
<b>Total credits</b>		<b>14.0</b>

<b>Spring</b>		<b>Credits</b>
<a href="#">BIOL 325S</a>	<b>Genetics</b>	4.0
<a href="#">ENGL 325S</a>	<b>Literature and Psychology</b>	3.0
<a href="#">ECON 310S</a>	<b>Economics</b>	3.0
<a href="#">MGMT 308S</a>	<b>Health Systems Administration</b>	3.0
<b>Total credits</b>		<b>16.0</b>





### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

## Health-Services Administration B.S. Degree

This program, which consists of 120 semester credits, is designed as a full-time or part-time course of study for the individual seeking a broad-based Bachelor of Science degree for career enhancement or employment in a health-administrative capacity. Individuals currently holding a certificate, diploma, or degree in health-sciences disciplines, yet seeking to move into health-services-administration positions, may especially wish to complete the bachelor's degree in health-care administration by transferring to this program.

The curriculum has been developed to enable students to qualify for positions in hospitals, managed-care companies, insurance companies, and health-marketing firms by exposing students to the quantitative and qualitative aspects of the health-care industry by means of health-administration courses related to policy, law, economics, management, and marketing, as well as interdisciplinary courses dealing with religious, ethical, psychosocial, political, and historical perspectives on health-care practices.

In addition, the curriculum can prepare students wishing to pursue graduate studies in health-services administration.

Courses are available daytime and evenings, as well as [online](#). Depending on the number of transfer credits, students can elect to complete the program entirely online. A maximum of 90 semester credits can be transferred, including block credits from approved hospital-based certificate and diploma programs.

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



# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Health-Services Administration

*Bachelor of Science Degree: 120.0 credits*

Requirements		Credits
ENGL 101	Composition and Literature I	3.0
ENGL 102	Composition and Literature II	3.0
	Computer studies or communication elective	3.0
	College Mathematics (or higher) or statistics	3.0
	Humanities*/social sciences electives**	18.0
	Natural-sciences electives***	6.0
	Health-services administration electives+	30.0
	General electives	54.0
<b>Total</b>		<b>120.0</b>

\* Humanities electives include approved courses in communications, ethics, fine arts, folklore, languages, literature, music, mythology, philosophy, religion, speech, theater, and theology, as well as other approved humanities courses. (Courses used to fulfill the Composition and Literature I and II requirements will not count as humanities electives.)

\*\* Social-sciences electives include approved courses in addictions counseling, anthropology, archeology, behavioral counseling, economics (introductory), environmental studies, geography, history, management (introductory), mental-health sciences, political science, psychology, and sociology, as well as other approved social-sciences courses.

\*\*\* Natural-sciences electives include approved courses in anatomy, astronomy, biochemistry, biology, botany, cell and molecular biology, chemistry, genetics, geology, meteorology, microbiology, neurobiology, oceanography, pathophysiology, physics, physiology, and zoology, as well as other approved natural-sciences courses.

+ Courses offered in health-services administration include the following: Accounting and Budgeting for Health-Care Professionals; Economics; Financial Management for Health-Care Professionals; Health-Care Law; Health-Care Marketing; Health-Care Policy; Health-Systems Administration, Issues in the Health-Care Delivery System; Leadership and Management in Health Care; Managed Health Care; Management; and Readings in Health Systems Administration.

For the bachelor's degree, the following interdisciplinary courses may also be used toward fulfilling health-services-administration electives upon approval of the program director: Advanced Computer Applications for Health-Care Professionals;

Ethics and Medicine; Health, Disease, and Healing from a Cross-Cultural Perspective; Medical Billing, Coding, and Reimbursement; Medical Coding (Hospital Based and Physician Based); Religious Perspectives on Health-Care Practices; Social History of Health Care in America; Sociology of Aging; Statistics for the Health Sciences; and Values and the Health Professions.



### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Radiologic Technology

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

### Mission Statement

The mission of the Radiologic Technology Program is to provide:

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

### Program Goals

- Enroll qualified students
- Prepare students to apply radiologic health care services using technical knowledge and skills
- Prepare students to apply professional and ethical patient care services
- Function competently as an entry-level radiographer upon successful completion of the program.
- Prepare students to be successful on credentialing examination.
- Understand the importance of , and need for, continuing education post graduation as mandated by the American Registry of Radiologic Technologists (ARRT).

### Accreditation

The program is accredited by The Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 900, Chicago, IL. 60606, (312) 704-5300.

### Options for Study

The program features an integrated plan of classroom and closely supervised clinical practicum. Students have clinical experiences in CT, Magnetic Resonance Imaging, Angiography, Radiation Therapy and Nuclear Medicine. Graduates are familiar with all areas of diagnostic radiologic technology and the most modern, sophisticated equipment.

Two options for study are available:

- [Associate in Science Degree](#)
- [Post-Certificate Associate in Science Degree](#)

For more information, visit the [Radiologic Technology](#) page on the College of Nursing and Health Professions web site.



# Drexel University

## Catalog 2005 / 2006

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Radiologic Technology

Associate in Science Degree: 78.0 credits

### Plan of Study

*First year*

Fall		Credits
<a href="#">ANAT 130S</a>	Anatomy and Physiology I	4.0
<a href="#">MATH 103S</a>	Technical Mathematics	3.0
<a href="#">RADI 100S</a>	Introduction to Radiologic Technology	2.0
<a href="#">RADI 150S</a>	Principles of Radiographic Exposure I	2.0
<a href="#">RADI 164S</a>	Radiographic Procedures I	3.0
<a href="#">RADI 194S</a>	Methods of Patient Care	2.0
<a href="#">RADI 195S</a>	Clinical Practicum I	2.0
<b>Total credits</b>		<b>18.0</b>

Spring		Credits
<a href="#">ANAT 131S</a>	Anatomy and Physiology II	4.0
<a href="#">ANAT 202S</a>	Cross-Sectional Anatomy	2.0
<a href="#">ENGL 101S</a>	Composition and Literature I	3.0
<a href="#">RADI 132S</a>	Radiologic Physics I	2.0
<a href="#">RADI 153S</a>	Principles of Radiographic Exposure II	3.0
<a href="#">RADI 165S</a>	Radiographic Procedures II	3.0
<a href="#">RADI 196S</a>	Clinical Practicum II	2.0
<b>Total credits</b>		<b>19.0</b>

Summer		Credits
<a href="#">ENGL 102S</a>	Composition and Literature II	3.0
<a href="#">RADI 133S</a>	Radiologic Physics II	2.0
<a href="#">RADI 141S</a>	Radiographic Processing Technique	1.0
<a href="#">RADI 197S</a>	Clinical Practicum III	3.0
Humanities elective		3.0
<b>Total credits</b>		<b>12.0</b>

*Second year*

Fall		Credits
<a href="#">PSY 101S</a>	Introduction to Psychology	3.0
<a href="#">RADI 166S</a>	Radiographic Procedures III	3.0
<a href="#">RADI 201S</a>	Medical Imaging	1.0

<a href="#">RADI 215S</a>	Radiation Biology	2.0
<a href="#">RADI 254S</a>	Principles of Radiographic Exposure III	1.0
<a href="#">RADI 291S</a>	Clinical Practicum IV	3.0
<b>Total credits</b>		<b>13.0</b>

<b>Spring</b>		<b>Credits</b>
<a href="#">CMPS 125S</a>	Computer Applications	3.0
<a href="#">BCS 360S</a>	Abnormal Psychology	3.0
<a href="#">RADI 204S</a>	Principles of Radiation Protection	1.0
<a href="#">RADI 210S</a>	Radiographic Procedures IV	2.0
<a href="#">RADI 222S</a>	Pathology	2.0
<a href="#">RADI 221S</a>	Quality Assurance	2.0
<a href="#">RADI 292S</a>	Clinical Practicum V	3.0
<b>Total credits</b>		<b>16.0</b>



- [Home](#)
- [Contents](#)
- [Index](#)
- [E-mail](#)
- [Search](#)
- [Admissions](#)

# Drexel University

## Catalog 2005 / 2006

[About Drexel](#) [Admissions](#) [Tuition/Fees](#) [Financial Aid](#) [Drexel Co-op](#) [Programs](#) [Policies](#)

### Undergraduate Catalog

- All majors
- All minors
- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Biomedical Engineering
- Goodwin Professional
- ROTC

### Graduate Catalog

- Arts and Sciences
- Business
- Education
- Engineering
- Information Science and Technology
- Media Arts & Design
- Nursing and Health
- Medicine
- Biomedical Engineering
- Public Health

### Catalog Home

- All Course Descriptions
- Certificate programs
- Schedule

### Prospective Students

### Apply Online

## Radiologic Technology

*Post-Certificate Associate in Science Degree: 15.0 credits*

### Post-Certificate Associate Degree

Graduate technologists can pursue an Associate of Science degree. Continuing education is required for technologists who plan to move upward in the field of diagnostic imaging. Students may attend the program on a full-time or part-time basis and must complete 15 semester hours at Drexel University. They take five additional courses, totaling 15 credits:

Additional Requirements	Semester Hours
<a href="#">ENGL 101S</a> Composition and Literature I	3.0
<a href="#">ENGL 102S</a> Composition and Literature II	3.0
Humanities elective	3.0
Social science electives	6.0
<b>Total</b>	<b>15.0</b>