DREXEL UNIVERSITY

College of
Nursing and
Health Professions

CATALOG

2024-2025

UNDERGRADUATE

catalog.drexel.edu

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The College of Nursing and Health Professions

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

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

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About the College

An Inclusive Community

Diversity and inclusion are fundamental to all of CNHP's endeavors, enriching our educational, research and practice experiences. We are committed to reducing inequities in our education, research, practice, policy and civic engagement initiatives —advocating for intersectional social justice, promoting greater inclusivity and eliminating health disparities. Some examples of classes that address health disparities and health inequities span disciplines, from an Art Therapy and Counseling course that explores the impacts and implications of culture, race, ethnicity, sexual orientation, gender and other relevant identities within the context of mental health treatment to a Health Services Administration course that looks at the meaning of health through the eyes of various distinct vulnerable populations.

Cooperative Education Program (co-op) and Experiential Learning

Drexel University's cooperative education program, also known as co-op, is one of the most distinctive features of a Drexel education. Co-ops present the chance to gain invaluable real-world work experience in some of the nation's best health care institutions and other industry leaders. After their first year, depending on the program they choose, CNHP students can alternate six-month periods of full-time study with full-time employment at Drexel-approved employers. Complementing co-op, there is also a rich array of on-campus experiential learning opportunities, including those in the state-of-the-art Center for Interprofessional Clinical Simulation and Practice. This comprehensive, hands-on learning model provides the optimal environment for students to develop skills, learn from mistakes and become adept and competent caregivers for patients.

Practice and Engage in Philadelphia

Opportunities to engage and practice abound in CNHP's innovative health and wellness facilities. In addition to the Stephen and Sandra Sheller 11th Street Family Health Services (https://drexel.edu/cnhp/practices/11th-street/), the Community Wellness HUB (https://drexel.edu/cnhp/practices/community-wellness-HUB/) offers free health and wellness programming and disease prevention education, including screening, counseling and referral services for residents of nearby Mantua and Powelton Village. Several CNHP practices offer real-world experience including Physical Therapy Services, providing outpatient care for members of the community, and The Academic Bistro (https://drexel.edu/cnhp/academics/departments/food-hospitality-management/academic-bistro/), a student-run restaurant that serves as a lab for our students, who also produce, prepare and serve organic food from the Bistro Garden.

CNHP also works with community partners on exciting research opportunities like Eat Right Philly (https://drexel.edu/cnhp/research/centers/Eat-Right-Philly/), a grant-funded program in the Department of Nutrition Sciences that serves thousands of students, families and staff in more than 70 schools in the School District of Philadelphia.

Drexel For Life

Student life at CNHP and within the larger Drexel University community includes a diverse range of opportunities to engage, connect and thrive. A sense of belonging to something bigger than yourself, of a shared, common purpose that transcends disciplines and departments, extends not only through commencement but beyond. As one of the largest colleges at Drexel, CNHP offers an inclusive alumni network that helps graduates of all ages stay connected to the College, to the University and to each other. Friendships forged at CNHP can last a lifetime. And years after commencement, meeting a fellow Dragon can spark new friendships and professional collaborations. #foreverdragons

Research, Discovery and Innovation

Drexel University's Office of Research and Innovation invests in the future, enabling advances, innovations and progress that sustain our reputation as a preeminent research university globally, nationally and locally. In 2019, Drexel received acknowledgment from the Carnegie Classification of Institutions of Higher Education of its R1 research status, noting the highest research activity — one that is held by just 39 private universities.

Accreditation

- The Baccalaureate Degree in Nursing (BSN), the Master's Degree in Nursing (MSN), the Doctor of Nursing Practice (DNP), and the Post-Masters APRN Certificate Programs at Drexel University are accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington DC 20001, (202)887-6791. These programs and the Post Masters APRN certificates are also approved by the Pennsylvania State Board of Nursing
- The Couple and Family Therapy MFT degree and post-master's certificate programs are accredited by COAMFTE (Commission on Accreditation of Marriage and Family Therapy Education) (https://www.coamfte.org/).
- The Creative Arts Therapies MA degree in Dance/Movement Therapy are accredited by the American Dance Therapy Association (ADTA) (https://www.adta.org/).
- The Creative Arts Therapies MA degree in Music Therapy and Counseling is accredited by the American Music Therapy Association (AMTA) (https://www.musictherapy.org/). (https://www.musictherapy.org/)
- The Creative Arts Therapies MA degree in Art Therapy and Counseling is accredited by the Accreditation Council for Art Therapy Education (ACATE).
- The Didactic Program in Nutrition is accredited by the Accreditation Council for Education in Nutrition and Dietetics Association (ACEND) (https://www.eatrightpro.org/acend/).
- The Nurse Anesthesia program is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs (COA).
- The Doctor of Physical Therapy (DPT) program is accredited by the Commission on (http://www.capteonline.org/home.aspx)Accreditation in Physical Therapy Education (CAPTE).
- The Physician Assistant program is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA).

Culinary Arts and Science BS

Major: Culinary Arts & Science
Degree Awarded: Bachelor of Science (BS)
Calendar Type: Quarter
Minimum Required Credits: 185.0 (Food and Beverage Management Concentration); 185.0 (Culinary Science Concentration)
Co-op Options: No Co-op (Four years); One Co-op (Four years)
Classification of Instructional Program (CIP) code: 12.0509
Standard Occupational Classification (SOC) code: 35-2014

About the Program

The major in Culinary Arts and Science allows students to deeply explore cuisine—the practical techniques of cooking but also its science, history, culture, politics and economics. Students receive a broad overview of cooking and cuisine, specializing in food and beverage management or culinary science, which prepares students for leadership positions in the restaurant and food industry.

Students majoring in Culinary Arts and Science are prepared for careers in the food industry such as pastry chef, chef, research chef or food product developer.

This baccalaureate degree in Culinary Arts and Science is among the first of its kind in the United States. This program comprises approximately equal parts liberal arts, business, hospitality management, food science and culinary arts. The aim of the program is to prepare students as independent thinkers who can work collaboratively in the food industry.

Additional Information

For more information about this program, please email askcnhp@drexel.edu. Additional information can be found on the Culinary Arts and Science (https://drexel.edu/cnhp/academics/undergraduate/BS-in-culinary-arts-and-science/) website.

Program Delivery Options

Drexel's BS degrees include courses in the liberal arts, the humanities, sciences, hospitality management and culinary arts. Three business minors are also offered. The BS degree can be completed on a full-time or part-time basis:

Traditional four-year option, with one co-op experience:

This option includes one six-month period of full-time employment in the junior year.

Four plus one option BS/MBA combined degree, with co-op experience:

This option combines the four-year BS degree followed by the one-year Professional MBA to qualify freshmen applicants. Incoming freshmen will generally have a minimum of 1300 on the SAT, a GPA of 3.5 or higher and be in the top 10% of their high school graduating class. For MBA requirements visit the LeBow College Professional MBA (http://www.lebow.drexel.edu/academics/graduate/drexel-lebow-mba/) website.

Part-time option without co-op experience:

Students work closely with academic advisors to develop a customized plan of study toward degree completion.

London option:

Students are invited to spend a term in their sophomore, junior or senior year in the Study Abroad Program (http://www.drexel.edu/studyabroad/), Drexel in London, while earning up to 18.0 credits. The program's emphasis is on the global implications of and opportunities within the food hospitality industry. Other Study Abroad programs are also available.

Degree Requirements

Food & Beverage Requirements

Food & Beverage Management Concentration		
General Education Requirements		
CHEM 201	Why Things Work: Everyday Chemistry	3.0
or CHEM 101	General Chemistry I	
CIVC 101	Introduction to Civic Engagement	1.0
COM 230	Techniques of Speaking	3.0
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	

ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
MATH 101	Introduction to Analysis I	4.0
NFS 100 & NFS 101	Nutrition, Foods, and Health and Introduction to Nutrition & Food	3.0
COOP 101	Career Management and Professional Development	1.0
UNIV NH101	The Drexel Experience	1.0
Arts & Humanities		9.0
Social Science		6.0
Food Science Courses		
FDSC 100	ServSafe	1.0
FDSC 120	Food and the Senses	3.0
FDSC 154	Science of Food and Cooking	4.0
FDSC 270	Microbial Food Safety and Sanitation	4.0
FDSC 306	Food Composition & Behavior	3.0
FDSC 350	Experimental Foods: Product Development	3.0
FDSC 401	Modernist Cuisine	3.0
Culinary Arts Courses		
CULA 115	Culinary Fundamentals	3.0
CULA 120	Techniques and Traditions I	3.0
CULA 121	Techniques and Traditions II	3.0
CULA 125	Foundations of Professional Baking	3.0
CULA 216	A la Carte	3.0
CULA 220	Patisserie I	3.0
CULA 291	Culinary Arts Practicum II	6.0
CULA 303	Global Cuisine Studio (Course taken twice for 6.0 credits total)	6.0
CULA 316	Butchery Laboratory	2.0
CULA 325	Garde Manger Laboratory	3.0
CULA 405 [WI]	Culture and Gastronomy I	3.0
CULA 410	Culture and Gastronomy II	3.0
CULA 421	Senior Design Project I	2.0
CULA 422	Senior Design Project II	2.0
FOOD 302	Culinary Medicine	3.0
Hospitality Management Courses		
HRM 120	Principles of Food-Service Management	3.0
HRM 150	Food & Beverage Customer Service	3.0
HRM 215	Commercial Food Production	4.0
HRM 220	Purchasing and Cost Controls for the Hospitality Industry	3.0
HRM 330	Hospitality Marketing and Branding	3.0
HRM 335	Beverage Management	3.0
HRM 435	Wine Regions of the World	3.0
CULA or HRM Electives		**18.0**
Free Electives		**12.0**
Business/Minor Requirements		**24.0**
Total Credits		**185.0**

Culinary Science Requirements

Culinary Science Concentration		
General Education Requirements		
CIVC 101	Introduction to Civic Engagement	1.0
COM 230	Techniques of Speaking	3.0
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
COOP 101	Career Management and Professional Development	1.0
UNIV NH101	The Drexel Experience	1.0
Arts & Humanities Electives		9.0
Social Science Electives		6.0

Math/Science		
BIO 107 & BIO 108	Cells, Genetics & Physiology and Cells, Genetics and Physiology Laboratory	4.0
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	4.5
CHEM 241	Organic Chemistry I	4.0
CHEM 242	Organic Chemistry II	4.0
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
NFS 100 & NFS 101	Nutrition, Foods, and Health and Introduction to Nutrition & Food	3.0
PHYS 170	Electricity and Motion	3.0
PHYS 172	Experimental Lab for Electricity and Motion	1.0
PHYS 175	Light and Sound	3.0
PHYS 177	Experimental Lab for Light and Sound	1.0
HSCI 345	Statistics for Health Sciences	4.5
Food Science Courses		
FDSC 100	ServSafe	1.0
FDSC 120	Food and the Senses	3.0
FDSC 154	Science of Food and Cooking	4.0
FDSC 270	Microbial Food Safety and Sanitation	4.0
FDSC 306	Food Composition & Behavior	3.0
FDSC 350	Experimental Foods: Product Development	3.0
FDSC 401	Modernist Cuisine	3.0
FDSC 450	Food Microbiology	3.0
FDSC 451	Food Microbiology Laboratory	2.0
FDSC 456	Food Preservation Processes	3.0
FDSC 460	Food Chemistry	3.0
FDSC 487	Food Engineering	3.0
FDSC 490	Seminar in Food Science	1.0
Culinary Arts Courses		
CULA 115	Culinary Fundamentals	3.0
CULA 120	Techniques and Traditions I	3.0
CULA 121	Techniques and Traditions II	3.0
CULA 125	Foundations of Professional Baking	3.0
CULA 291	Culinary Arts Practicum II	6.0
CULA 303	Global Cuisine Studio (Course taken twice for 6.0 credits total)	6.0
CULA 405 [WI]	Culture and Gastronomy I	3.0
CULA 410	Culture and Gastronomy II	3.0
CULA 421	Senior Design Project I	2.0
CULA 422	Senior Design Project II	2.0
FOOD 302	Culinary Medicine	3.0
Culinary Arts Electives		9.0
Free electives (or Business Minor)		25.0
Total Credits		**185.0**

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

Food and Beverage Concentration Plan of Study- 4 year, one co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CULA 115	3.0	CIVC 101	1.0	CHEM 201 or 101	3.0	VACATION	
ENGL 101 or 111	3.0	CULA 120	3.0	CULA 121	3.0		
FDSC 100	1.0	CULA 125	3.0	ENGL 103 or 113	3.0		
MATH 101	4.0	ENGL 102 or 112	3.0	FDSC 120	3.0		
UNIV NH101	1.0	NFS 100 & NFS 101	3.0	FDSC 154	4.0		
				Program elective*	3.0		
	12		**13**		**19**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CULA 316	2.0	COM 230	3.0	CULA 303	3.0	COOP 101	1.0
FDSC 270	4.0	FDSC 306	3.0	Minor elective**	4.0	CULA 291	6.0
HRM 120	3.0	HRM 215	4.0	Program elective*	3.0	Minor elective**	4.0
HRM 150	3.0	Minor elective**	4.0	Social Science elective+	3.0	Program elective*	3.0
Arts & Humanities elective***	3.0			Free elective	3.0	Social Science elective+	3.0
	15		**14**		**16**		**17**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CULA 325	3.0	CULA 220	3.0	COOP EXPERIENCE±		COOP EXPERIENCE±	
CULA 405	3.0	HRM 330	3.0				
FDSC 350	3.0	HRM 335	3.0				
HRM 220	3.0	Minor elective**	4.0				
Free elective	3.0	Program elective*	3.0				
Program elective*	3.0						
	18		**16**		**0**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits
CULA 303	3.0	CULA 422	2.0	CULA 216	3.0
CULA 421	2.0	FOOD 302	3.0	CULA 410	3.0
FDSC 401	3.0	HRM 435	3.0	Arts & Humanities elective	3.0
Free elective	3.0	Arts & Humanities elective***	3.0	Minor elective	4.0
Minor elective**	4.0	Program elective*	3.0	Free elective	3.0
	15		**14**		**16**

Total Credits 185

Culinary Science Concentration Plan of Study- 4 year, 1 co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CHEM 101	3.5	CHEM 102	4.5	CHEM 103	4.5	VACATION	
CULA 115	3.0	CIVC 101	1.0	CULA 121	3.0		
ENGL 101 or 111	3.0	CULA 120	3.0	ENGL 103 or 113	3.0		
FDSC 100	1.0	ENGL 102 or 112	3.0	FDSC 120	3.0		
MATH 101	4.0	MATH 102	4.0	FDSC 154	4.0		
UNIV NH101	1.0						
	15.5		**15.5**		**17.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
FDSC 270	4.0	CHEM 241	4.0	BIO 107	3.0	COM 230	3.0
NFS 100	2.0	CULA 125	3.0	BIO 108	1.0	COOP 101	1.0
NFS 101	1.0	FDSC 306	3.0	CHEM 242	4.0	CULA 291	6.0
PHYS 170	3.0	PHYS 175	3.0	CULA 303	3.0	Free elective	3.0
PHYS 172	1.0	PHYS 177	1.0	Arts & Humanities elective***	3.0	Social Science elective+	3.0

Free elective	4.0			Free elective	3.0		
	15		**14**		**17**		**16**

Third Year

Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
FDSC 350	3.0	FDSC 456	3.0	COOP EXPERIENCE±		COOP EXPERIENCE±	
FDSC 450	3.0	HSCI 345	4.5				
FDSC 451	2.0	Social Science elective+	3.0				
Arts & Humanities elective***	3.0	Program elective*	3.0				
Free elective	3.0	Free elective	3.0				
	14		**16.5**		**0**		**0**

Fourth Year

Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**
CULA 405	3.0	CULA 410	3.0	CULA 303	3.0
CULA 421	2.0	CULA 422	2.0	Arts & Humanities elective***	3.0
FDSC 401	3.0	FDSC 487	3.0	Free elective	3.0
FDSC 460	3.0	FOOD 302	3.0	Program elective*	3.0
FDSC 490	1.0	Free elective	3.0		
Free Elective	3.0	Program elective*	3.0		
	15		**17**		**12**

Total Credits 185

±
Students may be registered in a later term based on their co-op program (4-year or 5-year) and cycle. Select students may be eligible to replace COOP 101 with COOP 001.

*****
Program electives include any CULA, FDS, or HRM courses.

******
Minor electives to be determined according to student's chosen minor under direction of advisor and program director as needed.

****
Arts & Humanities elective include courses from Westphal College, arts-related courses from Arts & Science and others as determined by advisor, examples include: AFAS, ARBC, CHIN, ENGL, ESL, FREN, GER, HIST, HNRS, ITAL, JAPN, KOR, LING, WRIT, and others determined by advisor in conjunction with faculty.

†
Social sciences electives include ANTH, CJS, COM, ENSS, GST, HNRS, JWST, PBHL PHIL, PPE, PSCI, PSY, SCTS, SOC, WGST, and others determined by advisor in conjunction with faculty.

Co-op/Career Opportunities

The food and hospitality industry employs 15 million people nationwide. According to the National Restaurant Association statistics, employment is growing at the rate of 11% each year, making this industry one of the fastest growing in the country. Our Culinary Arts and Science program enjoys close relationships with outstanding and internationally acclaimed chefs in the finest restaurants, hotels and tourism partners in the greater Philadelphia area. We also have relationships with professional organizations that represent the industry on a regional, national and international level such as Research Chefs Association, Institute of Food Technologists and International Association of Culinary Professionals. These relationships result in scholarship funding and networking opportunities for our students.

Typical career paths for graduates include the following:

- Restaurants and private clubs, which employ over 9 million people in the US
- Hotels and resorts with almost 2.5 million employees
- Convention, special events, meeting planning and tourism agencies
- Food service and beverage brokers, distributors and suppliers to the industry
- Food waste and sustainability practices and solutions
- Food product development
- Quality assurance
- Food sensory analysis
- Food technologist

Co-Op Opportunities

Drexel University has long been known for its cooperative education/internship programs, which allow students to mix periods of full-time, career-related employment with their studies. Culinary Arts and Science students pursue the six-month co-op employment. This six-month experience during the junior year is tailored to fit the interests of each student. The following hotels, facilities, restaurants and clubs have recently offered co-op positions to Drexel's Culinary Arts and Science students. Although many of these examples are located in the Philadelphia area, co-op jobs are not limited to any region.

- Vernick Restaurant
- High Street Hospitality Group
- Jose Garces - Garces Group
- Marc Vetri - Vetri Family of Restaurants
- Philadelphia Convention and Visitors Bureau
- America's Test Kitchen
- Philadelphia Chamber of Commerce
- Walt Disney World Co
- Saxbys
- Campbell Soup Company
- International flavors and fragrances
- Barry Callebaut
- Blommer Chocolate
- Yards Brewery
- Colorcon
- Mafco International
- Nestle

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

Facilities

The major facility of the Culinary Arts and Science program is located on the sixth floor of the Academic Building. It is a 6,500-square-foot space that includes three state-of-the-art commercial kitchens, bakery and laboratories, as well as the Academic Bistro (https://drexel.edu/cnhp/academics/departments/food-hospitality-management/academic-bistro/), the student-run restaurant, bar and lounge. The facility also includes a sensory analysis lab, hospitality and gaming lab and conference room. As part of the curriculum, students in this major are required to take food safety and sanitation courses which include lab work at Papadakis Integrated Science Building.

Philadelphia Location

A unique feature of the Culinary Arts and Science program at Drexel is our location in Philadelphia with proximity to New York City, Boston, Baltimore and Washington DC, as well as the resort centers on the Atlantic seacoast and in the Pocono Mountains. These regions include hundreds of hotels, restaurants and resorts that are used for field trips and campus visits by hospitality resource professionals. Students also gain hands-on experience through faculty-directed field trips throughout the region.

Program Level Outcomes

- Demonstrate an operational understanding of a range of basic to advanced culinary and food science principles to operate successfully and profitably in the food industry
- Demonstrate critical thinking and problem-solving skills for active and integrated learning
- Apply knowledge, skills and ethics necessary to begin or to grow professionally in a global marketplace
- Develop culinary and professional skills to be effective in commercial environments
- Demonstrate the techniques and recognize the contributions of global cuisines to the modern culinary world
- Foster strong work ethics and teamwork skills appropriate for a diverse business environment in culinary-related fields
- Assess food quality based on food safety and pathogen reduction as well as composition and nutritional quality.

Culinary Arts & Science Faculty

Jonathan Deutsch, PhD *(New York University)*. Professor. Social and cultural aspects of food, culinary education, culinary improvisation, recipe and product development; food sustainability.

Paul O'Neill, MA *(La Salle University)*. Assistant Clinical Professor. Hospitality Management

Richard Pepino Associate Clinical Professor. Executive Kitchen Director

Rosemary Trout, DHSc *(Drexel University) Program Director, Culinary Arts and Food Science*. Associate Clinical Professor. Food safety and sanitation in food service and food manufacturing; sensory evaluation, ingredient functionality and food chemistry, food media.

Michael Tunick, PhD *(Temple University)*. Assistant Clinical Professor. Dairy and Cheese science, rheology, Sensory science, Food chemistry and engineering

Charles Ziccardi, MS *(Drexel University)*. Assistant Teaching Professor. Classic Italian cuisine, Italian culture, gardening for the kitchen, food sustainability, and professional hospitality management.

Emeritus Faculty

A. Philip Handel, PhD *(University of Massachusetts)*. Professor Emeritus. Food science, especially lipid chemistry; food composition and functionality; evaluation and analysis of frying fats and fried foods.

Donna H. Mueller, PhD *(Temple University)*. Associate Professor Emeritus. Clinical nutrition; pediatric nutrition; nutrition in pulmonary diseases, especially cystic fibrosis; nutrition in developmental delay; dental nutrition; dietetic education and professional development.

Exercise Science BS

Major: Exercise Science
Degree Awarded: Bachelor of Science (BS)
Calendar Type: Quarter
Minimum Required Credits: 183.0
Co-op Options: One Co-op (Four years)
Classification of Instructional Programs (CIP) code: 31.0505
Standard Occupational Classification (SOC) code: 29-1128

About the Program

The Bachelor of Science (BS) in Exercise Science at Drexel University integrates a foundation of developmental health and wellness with rigorous training in exercise science and sports medicine concepts to provide the knowledge, skills and abilities required as an advocate for the promotion of health, well-being and physical performance.

The curriculum is designed to apply these scientific concepts to physical activity and the design of safe and effective fitness practices for diverse populations. Practices are emphasized that are essential for creating a culture of diversity, equity, inclusiveness and interprofessional practice, education and research. Drexel University Exercise Science students will be well-positioned to sit for group exercise and health/fitness certifications with organizations such as the American College of Sports Medicine and other professional and accredited agencies/bodies.

Additional Information

For more information about this program, please email askcnhp@drexel.edu. Additional information can be found on the Exercise Science (https://drexel.edu/cnhp/academics/undergraduate/BS-Exercise-Science/) website.

Admission Requirements

- Three years of mathematics (algebra I and II, geometry)
- Two years of laboratory science (biology, chemistry or physics)

Degree Requirements

Core Exercise Science Courses		
ESCI 101	Foundations of Exercise Science	4.0
ESCI 201	Introduction to Exercise Science	4.0
ESCI 210	Health and Wellness Throughout the Lifespan	3.0
ESCI 315	Concepts & Practices in Inclusive Physical Activity	3.0
ESCI 320	Technological Advancements and Integrations in Exercise Science	3.0
ESCI 330	Physical Growth and Motor Behavior	3.0
ESCI 340	Exercise Physiology II	4.0
ESCI 410	Aging and Exercise	4.0
ESCI 415	Pharmacology & Ergogenic Aids in Exercise Science	3.0
ESCI 420	Wellness and Fitness Program Management	3.0
ESCI 435	Exercise is Medicine: A Campus Experience	4.0
HSCI 325	Exercise Physiology	4.0

HSCI 326	Applied Anatomy and Kinesiology	5.0
HSCI 380	Strength and Conditioning	4.0
HSCI 381	Exercise for Clinical Populations	4.0
HSCI 410	Psychology of Physical Activity	4.0
HSCI 425	Exercise Testing and Prescription	4.0
SCL 210	Prevention and Care of Athletic Injuries	3.0
SMT 285	Sport, Industry, and Society	4.0
General Requirements		
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development	1.0
UNIV NH101	The Drexel Experience	1.0
Biology Sequence		
BIO 131 & BIO 134	Cells and Biomolecules and Cells and Biomolecules Lab	5.0
BIO 132 & BIO 135	Genetics and Evolution and Genetics and Evolution Lab	5.0
BIO 133 & BIO 136	Physiology and Ecology and Anatomy and Ecology Lab	5.0
Chemistry Sequence		
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	4.5
English Sequence		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Mathematics Sequence		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
Psychology		
PSY 101	General Psychology I	3.0
Nutrition		
NFS 100 & NFS 101	Nutrition, Foods, and Health and Introduction to Nutrition & Food	3.0
Public Health		
PBHL 101	Public Health 101	3.0
Sociology		
SOC 101	Introduction to Sociology	3.0
Anatomy and Physiology Courses		
HSCI 206	Human Anatomy and Physiology for Health Sciences I	5.0
HSCI 207	Human Anatomy and Physiology for Health Sciences II	5.0
HSCI 208	Human Anatomy and Physiology for Health Sciences III	5.0
Research		
HSCI 310	Introduction to Research Methods	4.0
HSCI 315	Current Issues in Health Sciences	4.0
or HSCI 450	Undergraduate Research Experience	
Physics		
PHYS 152	Introductory Physics I	4.0
Statistics and Assessment		
HSCI 345	Statistics for Health Sciences	4.5
HSCI 201	Health Assessment through the Lifespan	4.0
Exercise Science Electives (Minimum of 9 credits)		**9.0**
ESCI 370	Electrocardiogram Interpretation & Graded Exercise Testing	
HSCI 415	Musculoskeletal Pathophysiology	
HSCI 420	Advanced Anatomy	
HSCI 435	Neuroscience	
NFS 325	Nutrition & Exercise Physiology	
PBHL 301	Epidemiology in Public Health	
PHYS 153	Introductory Physics II	

PHYS 154	Introductory Physics III	
PSY 355	Health Psychology	
Business Electives (select one)		**3.0-4.0**
ACCT 110	Accounting for Professionals	
ACCT 120	Accounting Essentials for New Ventures	
BUSN 105	Applied Business Analysis	
FIN 150	Financial Literacy	
SMT 110	The Business of Sport	
Free electives		**6.0-8.0**
Total Credits		**183.0-186.0**

Sample Plan of Study

Plan of Study

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 131 & BIO 134	5.0	BIO 132 & BIO 135	5.0	BIO 133 & BIO 136	5.0	VACATION	
CHEM 101	3.5	CHEM 102	4.5	CHEM 103	4.5		
ENGL 101 or 111	3.0	CIVC 101	1.0	ENGL 103 or 113	3.0		
ESCI 101	4.0	ENGL 102 or 112	3.0	MATH 102	4.0		
UNIV NH101	1.0	MATH 101	4.0				
	16.5		**17.5**		**16.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ESCI 210	3.0	COOP 101	1.0	HSCI 208	5.0	HSCI 201	4.0
HSCI 206	5.0	ESCI 201	4.0	HSCI 345	4.5	SOC 101	3.0
NFS 100 & NFS 101	3.0	HSCI 207	5.0	PBHL 101	3.0	Business elective	3.0-4.0
PSY 101	3.0	HSCI 310	4.0	PHYS 152	4.0	Free elective	3.0-4.0
	14		**14**		**16.5**		**13-15**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
COOP EXPERIENCE		COOP EXPERIENCE		ESCI 315	3.0	ESCI 320	3.0
				HSCI 325	4.0	ESCI 340	4.0
				SCL 210	3.0	HSCI 381	4.0
				SMT 285	4.0	Free elective	3.0-4.0
				Exercise Science Elective	3.0		
	0		**0**		**17**		**14-15**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits
HSCI 315 or 450	4.0	ESCI 410	4.0	ESCI 330	3.0
HSCI 326	5.0	ESCI 415	3.0	ESCI 435	4.0
HSCI 425	4.0	ESCI 420	3.0	HSCI 410	4.0
Exercise Science Elective	3.0	HSCI 380	4.0	Exercise Science Elective	3.0
	16		**14**		**14**

Total Credits 183-186

Program Level Outcomes

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

- Communicate effectively in all settings in regard to physiologic and psychologic principles and practices underlying health and wellness across the lifespan, within diverse populations and under a variety of environmental conditions.
- Demonstrate critical thinking and problem-solving skills to questions in exercise science; Integrate reasoning to assess and implement appropriate knowledge, theory and practices to develop practical solutions to common challenges in exercise settings.
- Demonstrate professionalism, ethical reasoning and decision-making regarding common guidelines, standards, expectations and behaviors associated with professionals and participants in exercise settings.
- Demonstrate the skills necessary to critically review, interpret and utilize information effectively to promote health and wellness.

- Engage in lifelong learning by consuming and utilizing scientific knowledge to enhance practice and benefit the well-being of client individuals and communities.
- Appraise and utilize multiple technologies and alternative modalities to record, track, motivate and facilitate exercise and wellness interventions.
- Demonstrate cultural language sensitivity and competence with diverse populations in wellness and exercise settings; Analyze sociocultural perspectives and associated factors that affect diverse populations' efforts to achieve health and wellness.
- Demonstrate leadership characteristics and strategies to model professional behavior and advocate for positive change and healthy behavior in individuals and communities.
- Design and demonstrate safe and effective exercise and physical fitness concepts for diverse populations across the lifespan and within a variety of environmental conditions.
- Appraise and formulate appropriate research design and techniques in exercise settings, with diverse populations; Analyze and interpret quality peer-reviewed research in the health/wellness and exercise disciplines.
- Model wellness behavior in all professional roles.

Health Sciences BS

Major: Health Sciences
Degree Awarded: Bachelor of Science (BS)
Calendar Type: Quarter
Minimum Required Credits: 183.0
Co-op Options: One Co-op (Four years)
Classification of Instructional Programs (CIP) code: 51.1199
Standard Occupational Classification (SOC) code: 11-9111

About the Program

The bachelor’s degree program in Health Sciences at Drexel University exposes students to a wide variety of careers in health care and related professions. Our emphasis on interdisciplinary study, coupled with expert faculty, gives students the opportunity to explore different facets of health-related professions before matriculating to specialized graduate programs or entering the workplace. Whether you are on the fast track to a career in health professions or still finding your path, our Health Sciences program offers a multitude of options for completing your degree.

What You Will Learn

The Health Sciences program offers a rigorous four-year curriculum for students interested in pursuing careers in health-related professions. Courses in health and clinical sciences, research methods, statistics and health care ethics are combined with a core curriculum of mathematics, humanities and social sciences to provide a fully integrated and comprehensive curriculum.

Career Opportunities

Health care professions are one of the fastest growing job sectors in the United States. There is tremendous demand for trained health care providers at all levels. In the Health Sciences program, our multidisciplinary approach, flexible curriculum and co-op experience provide students with a highly competitive edge in the marketplace and in the pursuit of graduate program admission. Some of the fields Health Sciences graduates can expect to pursue post-graduation include:

- Rehabilitation Professions
  - Physical therapy
  - Occupational therapy
  - Speech and language pathology
  - Cardiac rehabilitation
- Physician Assistant Studies
- Medicine and Dentistry
- Optometry
- Audiology
- Clinical Research
- Public Health and Health Advocacy
- Nursing
- Exercise Physiology
- Nutrition Sciences
- Bioethics
- Health Psychology

Co-op Experience

Drexel University has long been known for its cooperative education programs. As part of the Health Sciences curriculum, students incorporate a six-month co-op experience into their plan of study. This allows students to learn from health care leaders at renowned facilities nationwide. By building career-related employment into undergraduate study, students gain work experience, network with health care professionals and hone their clinical and research skills. Some local co-op employers of Health Sciences students include Children's Hospital of Philadelphia, Magee Rehabilitation Hospital, Bryn Mawr Rehabilitation Hospital, Hahnemann University Hospital, Good Shepherd Penn Partners, NovaCare and many other health care facilities in the region.

Bridge Program Options

The Health Sciences program offers accelerated Bridge Program options for high-achieving students to pursue degrees in the Physician Assistant Studies (p. 62) program and the Doctor of Physical Therapy (p. 58) program within the College of Nursing and Health Professions.

Articulation Agreement Options

- Drexel's Health Sciences Department and Salus University's Occupational Therapy Department have partnered to offer a BS/MSOT sequential degree program. In the BS/MSOT option, students first complete a Bachelor of Science (BS) degree in Health Sciences at Drexel University, then enroll in the two-year Master of Science in Occupational Therapy (MSOT) program at Salus University.
- Drexel's Health Sciences Department and Thomas Jefferson University's Athletic Training Department have partnered to offer a BS/Master of Science in Athletic Training sequential degree program. In the BS/MSAT option, students first complete a Bachelor of Science (BS) degree in Health Sciences at Drexel University, then enroll in the two-year Master of Science in Athletic Training (MSAT) program at Thomas Jefferson University.
- Drexel's Health Sciences Department and Philadelphia's University of the Sciences PharmD Department have partnered to offer a BS/PharmD sequential degree program. In the BS/PharmD option, students first complete a Bachelor of Science (BS) degree in Health Sciences at Drexel University, then enroll in the four-year PharmD program at the University of the Sciences.

Optional Concentration in Exercise Science

The concentration in Exercise Science helps prepare Health Sciences majors for graduate studies in Exercise Physiology. In addition, the concentration provides foundational knowledge and skills for a variety of fitness certifications from the American College of Sports Medicine, National Strength and Conditioning Association and others. These certifications are often required of graduates interested in seeking employment in the fitness industry.

Drexel Graduate Options in Biomedical Sciences

Graduates of the Health Sciences program may also continue their education in the Graduate School of Biomedical Sciences and Professional Studies which offers over 40 doctoral, master's and professional development programs. These academic programs emphasize real-world experience and help guide students to make career decisions that best fit their abilities and evolving needs.

Additional Information

For more information, visit the Health Sciences Program (http://www.drexel.edu/cnhp/academics/departments/Health-Sciences/) page at the College of Nursing and Health Professions website.

Degree Requirements

General Requirements		
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development *	1.0
UNIV NH101	The Drexel Experience	1.0
English Sequence		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Biology Sequence		
BIO 131 & BIO 134	Cells and Biomolecules and Cells and Biomolecules Lab	5.0
BIO 132 & BIO 135	Genetics and Evolution and Genetics and Evolution Lab	5.0
BIO 133 & BIO 136	Physiology and Ecology and Anatomy and Ecology Lab	5.0
BIO 226	Microbiology for Health Professionals	5.0
Chemistry Sequence		
CHEM 101	General Chemistry I	3.5

CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	4.5
Mathematics Sequence		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
Communications		
COM 320 [WI]	Science Writing	3.0
Health Systems		
ECON 240	Economics of Health Care Systems	4.0
HSAD 210	Health-Care Ethics I	3.0
Complete one of the following courses:		3.0
HSAD 309	Advanced Health-Care Ethics	
HSAD 310	Introduction to Health-Systems Administration	
HSAD 345	Ethics in Health Care Management	
Psychology		
PSY 101	General Psychology I	3.0
Two Psychology (PSY 100-499) and/or Behavioral Health Counseling (BACS 100-499) courses (minimum 6.0 credits)		6.0
Sociology		
SOC 101	Introduction to Sociology	3.0
Two Sociology (SOC 100-499) courses (minimum 8.0 credits)		8.0
Humanities **		**9.0**
Public Health		
PBHL 101	Public Health 101	3.0
One Public Health (PBHL 300-499) course (minimum 3.0 credits)		3.0
Anatomy & Physiology Courses		
HSCI 206	Human Anatomy and Physiology for Health Sciences I	5.0
HSCI 207	Human Anatomy and Physiology for Health Sciences II	5.0
HSCI 208	Human Anatomy and Physiology for Health Sciences III	5.0
Research Courses		
HSCI 310	Introduction to Research Methods	4.0
HSCI 315	Current Issues in Health Sciences	4.0
or HSCI 450	Undergraduate Research Experience	
Statistics and Assessment		
HSCI 201	Health Assessment through the Lifespan	4.0
HSCI 345	Statistics for Health Sciences	4.5
Health Sciences Electives ***		**30.0**
Free electives		**21.0**
Total Credits		**183.0**

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Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.
COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 101 in place of COOP 101.

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Three Humanities (courses at the 100-499 level in ANTH, HIST, HUM, PHIL) or language electives (courses at the 100-499 level in ARBC, CHIN, FREN, GER, HBRW, ITAL, JAPN, KOR, SPAN) for a minimum of 9.0 credits.

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Health Sciences electives include HSCI or NFS courses at the 100-499 level. Up to two science courses (BIO 200-499, CHEM 200-499, PHYS 100-499) may be used as Health Sciences electives with advisor permission. All 100-Level freshman course requirements in BIO, CHEM, ENGL, and MATH must be completed by the time a student reaches 135.0 credits.

Optional Concentration in Exercise Science

The concentration in Exercise Science helps prepare students for graduate studies in Exercise Physiology. In addition, the concentration provides foundational knowledge and skills for a variety of fitness certifications from the American College of Sports Medicine, National Strength and Conditioning Association, and others. These certifications are often required of graduates interested in seeking employment in the fitness industry.

Students wishing to complete the concentration in Exercise Science must complete the courses listed below as 17.0 of their elective credits.

Required course:		
HSCI 325	Exercise Physiology	4.0

Complete 13.0 credits from the following list:		**13.0**
HSCI 326	Applied Anatomy and Kinesiology	
HSCI 380	Strength and Conditioning	
HSCI 381	Exercise for Clinical Populations	
HSCI 415	Musculoskeletal Pathophysiology	
HSCI 490	Senior Research Project	
HSCI T480	Special Topics in Health Sciences	
NFS 100 & NFS 101	Nutrition, Foods, and Health and Introduction to Nutrition & Food	
NFS 325	Nutrition & Exercise Physiology	
HSCI 425	Exercise Testing and Prescription	
HSCI 410	Psychology of Physical Activity	
Total Credits		**17.0**

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

4 year, one co-op (Fall/Winter)

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 131 & BIO 134	5.0	BIO 132 & BIO 135	5.0	BIO 133 & BIO 136	5.0	VACATION	
CHEM 101	3.5	CHEM 102	4.5	CHEM 103	4.5		
ENGL 101 or 111	3.0	CIVC 101	1.0	ENGL 103 or 113	3.0		
UNIV NH101	1.0	ENGL 102 or 112	3.0	MATH 102	4.0		
		MATH 101	4.0				
	12.5		**17.5**		**16.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 226	5.0	COOP 101*	1.0	COM 320	3.0	SOC 101	3.0
HSCI 206	5.0	PSY 101	3.0	HSAD 210	3.0	Free Elective	6.0
HSCI 310	4.0	HSCI 207	5.0	HSCI 208	5.0	Health Sciences Elective**	3.0
Free Elective	3.0	HSCI 345	4.5	Health Sciences Electives**	4.0	PSY Elective	3.0
		Free Elective	3.0				
	17		**16.5**		**15**		**15**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
COOP EXPERIENCE		COOP EXPERIENCE		PBHL 101	3.0	HSCI 201	4.0
				HSCI 315 or 450	4.0	Free Elective	3.0
				HSAD 309, 310, or 345	3.0	Health Sciences Electives**	4.0
				Health Sciences Elective**	3.0	Sociology Elective	4.0
	0		**0**		**13**		**15**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits
ECON 240	4.0	Free Elective	3.0	Health Sciences Electives**	6.0

Free Elective	3.0	Health Sciences Elective**	3.0	Humanities/Social Science Electives***	3.0		
Health Sciences Electives**	7.0	Humanities/Social Science Electives***	6.0	PBHL Elective	3.0		
		Sociology Elective	4.0	PSY Elective	3.0		
	14		**16**		**15**		

Total Credits 183

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COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select student may be eligible to take COOP 001 in place of COOP 101.
Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

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Health Sciences electives include HSCI or NFS courses at the 100-499 level. Up to two science courses (BIO 200-499, CHEM 200-499, PHYS 100-499) may be used as Health Sciences electives with advisor permission. All 100-Level freshman course requirements in BIO, CHEM, ENGL, and MATH must be completed by the time a student reaches 135.0 credits.

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Three Humanities (courses at the 100-499 level in ANTH, HIST, HUM, PHIL) or language electives (courses at the 100-499 level in ARBC, CHIN, FREN, GER, HBRW, ITAL, JAPN, KOR, SPAN) for a minimum of 9.0 credits.

4 year, one co-op (Spring/Summer)

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 131 & BIO 134	5.0	BIO 132 & BIO 135	5.0	BIO 133 & BIO 136	5.0	VACATION	
CHEM 101	3.5	CHEM 102	4.5	CHEM 103	4.5		
ENGL 101 or 111	3.0	CIVC 101	1.0	ENGL 103 or 113	3.0		
UNIV NH101	1.0	ENGL 102 or 112	3.0	MATH 102	4.0		
		MATH 101	4.0				
	12.5		**17.5**		**16.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 226	5.0	COOP 101*	1.0	COM 320	3.0	SOC 101	3.0
HSCI 206	5.0	HSCI 207	5.0	HSAD 210	3.0	Free Elective	6.0
HSCI 310	4.0	HSCI 345	4.5	HSCI 208	5.0	Health Sciences Elective**	4.0
Free Elective	3.0	PSY 101	3.0	Health Sciences Electives**	4.0	PSY Elective	3.0
		Free Elective	3.0				
	17		**16.5**		**15**		**16**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSCI 315 or 450	4.0	HSCI 201	4.0	COOP EXPERIENCE		COOP EXPERIENCE	
PBHL 101	3.0	Free Elective	3.0				
HSAD 210, 309, or 345	3.0	Health Sciences Elective**	4.0				
Health Sciences Elective**	3.0	Sociology Elective	4.0				
	13		**15**		**0**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits
ECON 240	4.0	Free Elective	3.0	Health Sciences Electives**	6.0
Free Elective	3.0	Health Sciences Elective**	3.0	Humanities/Social Electives***	3.0
Health Sciences Electives**	6.0	Humanities/Social Science Electives***	6.0	PBHL Elective	3.0
		Sociology Elective	4.0	PSY Elective	3.0
	13		**16**		**15**

Total Credits 183

*

COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to replace COOP 101 with COOP 001.
Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

**

Health Sciences electives include HSCI or NFS courses at the 100-499 level. Up to two science courses (BIO 200-499, CHEM 200-499, PHYS 100-499) may be used as Health Sciences electives with advisor permission. All 100-Level freshman course requirements in BIO, CHEM, ENGL, and MATH must be completed by the time a student reaches 135.0 credits.

***

Three Humanities (courses at the 100-499 level in ANTH, HIST, HUM, PHIL) or language electives (courses at the 100-499 level in ARBC, CHIN, FREN, GER, HBRW, ITAL, JAPN, KOR, SPAN) for a minimum of 9.0 credits.

Facilities

The College of Nursing and Health Professions is located on Drexel University's University City Campus. Students have access to the *Center for Interdisciplinary Clinical Simulation and Practice (CICSP)*, which utilizes patient actors and automated simulation manikins to mimic real-life human physiology. The CICSP provides undergraduate Health Sciences students the opportunity to learn assessment and communication skills in a controlled setting. The College of Nursing and Health Professions also maintains the *Stephen and Sandra Sheller 11th Street Family Health Services of Drexel University*, a comprehensive, community-based health center where students have unique opportunities to observe and participate in health care delivery.

Program Level Outcomes

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

- Demonstrate an understanding of the physical, biological and social sciences as they apply to health-related professions.
- Implement a career goal plan.
- Demonstrate critical thinking and problem solving skills.
- Demonstrate culture/language sensitivity in community health and wellness.
- Demonstrate professionalism regarding ethical issues.
- Engage in lifelong learning by consuming and utilizing scientific knowledge
- Communicate effectively in all settings
- Understand and utilize research design and techniques.

Health Sciences Faculty

Michael Bruneau, Jr., PhD ACSM EP-C *(Springfield College, University of Connecticut) Director of Undergraduate Research*. Associate Teaching Professor. Clinical exercise physiology; lifestyle therapies for prevention, treatment, and management of preclinical and clinical populations.

William D'Andrea, MS, BS Pharm, CCP *(MCP Hahnemann University)*. Assistant Teaching Professor. Pharmacology, anatomy & physiology.

Mary Elizabeth Flynn, PhD *(Temple University)*. Assistant Teaching Professor. Anatomy and physiology, developmental anatomy, genetics, and emerging tech in health care.

Jodie Haak, PhD *(University of Iowa)*. Associate Teaching Professor. Physiology and applied physiology, Aging and STEM pedagogy.

Michael L. Kirifides, PhD *(Hahnemann University)*. Assistant Teaching Professor. Identifying, designing, and implementing preparation approach to improve standardized testing outcomes for students in the undergraduate healthcare programs. Human anatomy and physiology, toxicology, pharmacology, and neuroscience.

Micah Meltzer, MD *(SUNY Downstate Medical School)*. Assistant Teaching Professor. Musculoskeletal physiology, evolutionary medicine, health assessment, regional anatomy, and advanced anatomy.

Anne Nixon Dower, PhD *(Penn State College of Medicine)*. Assistant Teaching Professor. Investigating the role of iron regulation and metabolism in health and disease. Anatomy and physiology, pathophysiology, regional anatomy, and advanced anatomy.

Jacqueline Phillips, PhD *(Temple University)*. Associate Clinical Professor. Anatomy and physiology

Meghan E. Smith, PhD *(Colorado State University)*. Assistant Teaching Professor. Anatomy and physiology, statistics, healthy aging, exercise, inflammation, and vascular function.

Paulina S. Sockolow, DrPH *(Johns Hopkins University)*. Associate Professor. Healthcare informatics.

Steven Vitti, PHD, ACSM-EP *(Springfield College)*. Assistant Teaching Professor. Dietary supplements, sports nutrition, human performance, skeletal muscle damage, peripheral fatigue.

Health Services Administration BS

Major: Health Services Administration
Degree Awarded: Bachelor of Science (BS)
Calendar Type: Quarter
Minimum Required Credits: 180.0
Co-op Options: One Co-op (Four years); Three Co-op (Five years); *No Co-op (Four years)*
Classification of Instructional Programs (CIP) code: 51.0701
Standard Occupational Classification (SOC) code: 11-9111

About the Program

The Bachelor of Science in Health Services Administration (HSA) is a pre-professional degree that prepares students to address the leadership and management challenges of a complex health care industry. In addition, the curriculum can prepare students wishing to pursue graduate studies in a variety of areas such as health services administration, business administration, public health, law and health communication.

The curriculum is designed to provide a foundation in the general management and economic principles that underpin the health care system. The program includes courses in such areas as leadership, health care policy, law, finance, management, marketing, bioethics and information systems. Additionally, the curriculum incorporates interdisciplinary courses that address psychosocial, political and historical perspectives regarding health care practice and the populations in need of health services.

Full-time students (180.0 quarter credits) are eligible to participate in Drexel University's renowned co-operative education program.* The Health Services Administration Department offers the option of a four-year/one co-op or a five-year/three co-op. A full-time, no co-op option is also available. Transfer students are eligible for the full-time curriculum with or without co-op depending on the number of approved transfer credits.

The program also provides a minor in HSA for Drexel University bachelor's-degree-seeking students and an online certificate in Medical Billing and Coding (p. 90) for non-degree-seeking students.

Courses are also available online (http://online.drexel.edu/online-degrees/healthcare-degrees/bs-hsa/). At least 60.0 approved transfer semester credits (90.0 approved quarter credits) including courses in:

- English composition and/or literature
- Natural sciences with a lab
- Computing course
- Mathematics and statistics
- Humanities/social sciences
- Up to 75.0 approved transfer semester credits (105.0 approved quarter credits) for students with a strong academic background in health services administration

* *Each cooperative experience is comprised of two consecutive quarter terms during the first half or the second half of the junior year.*

Additional Information

The contact for this program is:

Susan Feinstein, BS
Program Coordinator, Health Services Administration
1601 Cherry Street, 7th floor, Room 652
Philadelphia PA, 19102
267-359-5543
slf52@drexel.edu

For more information, visit the Health Services Administration (https://drexel.edu/cnhp/academics/undergraduate/BS-Health-Services-Administration/) page on the College's website.

Degree Requirements

English Sequence		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	

ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Natural Sciences *		**4.0-5.0**
BIO 107 & BIO 108	Cells, Genetics & Physiology and Cells, Genetics and Physiology Laboratory	4.0
Mathematics		
MATH 101	Introduction to Analysis I	3.0-4.0
or MATH 171	Introduction to Analysis A	
MATH 102	Introduction to Analysis II	3.0-4.0
or MATH 172	Introduction to Analysis B	
Computing Course		
CS 150	Computer Science Principles	3.0
Drexel Experience		
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development **	1.0
UNIV NH101	The Drexel Experience	1.0
Health Services Administration Core Requirements		
HSAD 210	Health-Care Ethics I	3.0
HSAD 310	Introduction to Health-Systems Administration	3.0
HSAD 321	Health-Care Human Resources	3.0
HSAD 322	Health-Care Law	3.0
HSAD 330	Financial Management in Health Care	3.0
HSAD 331 [WI]	Non-profits and Health Care	3.0
HSAD 332 [WI]	Health-Care Marketing	3.0
HSAD 334	Management of Health Services	3.0
HSAD 335 [WI]	Health-Care Policy	3.0
HSAD 340	Leadership in Health Services Administration	3.0
HSAD 345	Ethics in Health Care Management	3.0
Business Courses		
ACCT 110	Accounting for Professionals	4.0
ECON 201	Principles of Microeconomics	4.0
or ECON 202	Principles of Macroeconomics	
or ECON 240	Economics of Health Care Systems	
HSCI 345	Statistics for Health Sciences	4.0-4.5
or STAT 201	Introduction to Business Statistics	
ORGB 300 [WI]	Organizational Behavior	4.0
Humanities and Social Sciences		
PSCI 110	American Government	4.0
SOC 101	Introduction to Sociology	3.0
Health Services Administration (HSAD) Electives		**27.0**
Humanities and Social Sciences Electives		**29.0**
Free Electives ***		**39.0**
Total Credits		**180.0-183.5**

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Students may select from Biology (BIO 100-499), Chemistry (CHEM 100-499) or HSCI 101, HSCI 102, or HSCI 103 courses. However, any course selected must include a laboratory component. Additional natural science subject options may be considered to meet the Natural Science requirement with the approval of the student's advisor.

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Students in COOP programs will take COOP 101 as directed by your program advisor.

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NCOP students will take 40.0 free elective credits.

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

Plans of Study are based on available course scheduling information. Course scheduling is subject to change; therefore, Plans of Study are subject to change.

4 year, no co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ACCT 110	4.0	ENGL 102 or 112	3.0	CIVC 101	1.0	VACATION	
ENGL 101 or 111	3.0	MATH 101 or 171	3.0-4.0	ENGL 103 or 113	3.0		
SOC 101	3.0	PSCI 110	4.0	HSAD 210	3.0		
UNIV NH101	1.0	Natural Science course with Laboratory*	4.0-5.0	HSAD 310	3.0		
BIO 107 & BIO 108	4.0			MATH 102 or 172	3.0-4.0		
	15		**14-16**		**13-14**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CS 150**	3.0	ECON 201, 202, or 240	4.0	HSAD 335***	3.0	VACATION	
HSAD 322	3.0	HSAD 321	3.0	HSAD 340	3.0		
HSAD 334	3.0	HSAD 330	3.0	HSAD 345	3.0		
Free Electives	6.0	HSAD Elective	3.0	Free Electives	6.0		
		Humanities/Social Science Elective	3.0				
	15		**16**		**15**		**0**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
Free elective	4.0	ORGB 300***	4.0	HSAD 332***	3.0	VACATION	
HSAD Electives	6.0	HSAD Elective	3.0	HSAD Elective	3.0		
Humanities/Social Science Electives	6.0	Humanities/Social Science Electives	6.0	Free Electives	9.0		
		Free Elective	3.0				
	16		**16**		**15**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits
HSAD 331***	3.0	Free Elective	3.0	Free Electives	6.0
HSCI 345 or STAT 201	4.0-4.5	HSAD Electives	6.0	HSAD Elective	3.0
Free Elective	3.0	Humanities/Social Science Electives	7.0	Humanities/Social Science Elective	4.0
HSAD Elective	3.0				
Humanities/Social Science Elective	3.0				
	16-16.5		**16**		**13**

Total Credits 180-183.5

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Students may select from Biology (BIO 100-499), Chemistry (CHEM 100-499) or HSCI 101, HSCI 102, or HSCI 103 courses. However, any course selected must include a laboratory component. Additional natural science subject options may be considered to meet the Natural Science requirement with the approval of the student's advisor.

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COM 230 may be used as a substitution for CS 150

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HSAD 331 [WI] , HSAD 332 [WI] , HSAD 335 [WI] and ORGB 300 [WI] are Writing Intensive courses that fulfill the Writing Intensive Course requirement. Students should avoid combining these courses in one term.

4 year, 1 co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ACCT 110	4.0	ENGL 102 or 112	3.0	CIVC 101	1.0	VACATION	
ENGL 101 or 111	3.0	MATH 101 or 171	3.0-4.0	ENGL 103 or 113	3.0		
SOC 101	3.0	PSCI 110	4.0	HSAD 210	3.0		
UNIV NH101	1.0	Natural Science course with Laboratory*	4.0-5.0	HSAD 310	3.0		
BIO 107 & BIO 108	4.0			MATH 102 or 172	3.0-4.0		
	15		**14-16**		**13-14**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CS 150**	3.0	ECON 201, 202, or 240	4.0	HSAD 335***	3.0	COOP 101†	1.0
HSAD 322	3.0	HSAD 321	3.0	HSAD 340	3.0	Free Elective	3.0
HSAD 334	3.0	HSAD 330	3.0	HSAD 345	3.0	HSAD Elective	6.0
Free Electives	6.0	HSAD Elective	3.0	Free Electives	6.0	Humanities/Social Science Electives	6.0
		Humanities/Social Science Elective	3.0				
	15		**16**		**15**		**16**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ORGB 300***	4.0	HSAD 332***	3.0	COOP EXPERIENCE**		COOP EXPERIENCE**	
HSAD Elective	3.0	HSAD Elective	3.0				
Humanities/Social Science Electives	6.0	Free Electives	9.0				
Free Elective	3.0						
	16		**15**		**0**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits
HSAD 331***	3.0	Free Elective	3.0	Free Electives	6.0
HSCI 345 or STAT 201	4.0-4.5	HSAD Electives	6.0	HSAD Elective	3.0
Free Elective	3.0	Humanities/Social Science Electives	7.0	Humanities/Social Science Elective	4.0
HSAD Elective	3.0				
Humanities/Social Science Elective	3.0				
	16-16.5		**16**		**13**

Total Credits 180-183.5

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Students may select from Biology (BIO 100-499), Chemistry (CHEM 100-499) or HSCI 101, HSCI 102, or HSCI 103 courses. However, any course selected must include a laboratory component. Additional natural science subject options may be considered to meet the Natural Science requirement with the approval of the student's advisor.

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COM 230 may be used as a substitution for CS 150

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HSAD 331 [WI] , HSAD 332 [WI] , HSAD 335 [WI] and ORGB 300 [WI] are Writing Intensive courses that fulfill the Writing Intensive Course requirement. Students should avoid combining these courses in one term.

†

Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

5 year, 3 co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ACCT 110	4.0	ENGL 102	3.0	CIVC 101	1.0	VACATION	
ENGL 101	3.0	MATH 101 or 171	3.0-4.0	COOP 101**	1.0		
SOC 101	3.0	PSCI 110	4.0	ENGL 103	3.0		
UNIV NH101	1.0	Natural Science course with laboratory*	4.0-5.0	HSAD 210	3.0		
BIO 107 & BIO 108	4.0			HSAD 310	3.0		
				MATH 102 or 172	3.0-4.0		
	15		**14-16**		**14-15**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CS 150***	3.0	ECON 201, 202, or 240	4.0	COOP EXPERIENCE**		COOP EXPERIENCE**	
HSAD 322	3.0	HSAD 321	3.0				
HSAD 334	3.0	HSAD 330	3.0				
Free Elective	3.0	HSAD Elective	3.0				
HSAD Elective	3.0	Humanities/Social Science Elective	3.0				
	15		**16**		**0**		**0**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSAD 340†	3.0	HSAD 332†	3.0	COOP EXPERIENCE**		COOP EXPERIENCE**	
ORGB 300†	4.0	Free Electives	6.0				
HSAD Elective	3.0	HSAD Elective	3.0				
Free Elective	3.0	Humanities/Social Science Elective	3.0				
Humanities/Social Science Elective	3.0						
	16		**15**		**0**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSAD 331†	3.0	HSAD 345†	3.0	COOP EXPERIENCE**		COOP EXPERIENCE**	
Free Electives	6.0	Free Elective	3.0				
HSAD Elective	3.0	HSAD Elective	3.0				
Humanities/Social Science Elective	3.0	Humanities/Social Science Electives	7.0				
	15		**16**		**0**		**0**

Fifth Year

Fall	Credits	Winter	Credits	Spring	Credits
HSAD 335†	3.0	Free Electives	6.0	Free Electives	9.0
HSCI 345 or STAT 201	4.0-4.5	HSAD Electives	6.0	Humanities/Social Science Elective	3.0
Free Elective	3.0	Humanities/Social Science Elective	4.0		
HSAD Elective	3.0				
Humanities/Social Science Elective	3.0				
	16-16.5		**16**		**12**

Total Credits 180-183.5

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Students may select from Biology (BIO 100-499), Chemistry (CHEM 100-499) or HSCI 101, HSCI 102, or HSCI 103 courses. However, any course selected must include a laboratory component. Additional natural science subject options may be considered to meet the Natural Science requirement with the approval of the student's advisor.

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Students may be registered in a later term based on their co-op program (4-year or 5-year) and cycle. Select students may be eligible to replace COOP 101 with COOP 001.

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COM 230 may be used as a substitution for CS 150.

†
5COP HSAD students must take the following HSAD Core Courses in the online (ONL) format - HSAD 345, HSAD 340, and HSAD 335 [WI] due to three consecutive Spring/Summer Coop cycles.

HSAD 331 [WI] , HSAD 332 [WI] , HSAD 335 [WI] and ORGB 300 [WI] are Writing Intensive courses that fulfill the Writing Intensive course requirement. Students should avoid combining these courses in one term.

Part-time

First Year							
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
ACCT 110	4.0	ENGL 102 or 112	3.0	ENGL 103 or 113	3.0	HSAD Electives	3.0
ENGL 101 or 111	3.0	MATH 101 or 171	3.0-4.0	HSAD Elective	3.0	HSAD 210	3.0
	7		**6-7**		**6**		**6**
Second Year							
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
SOC 101	3.0	PSCI 110	4.0	MATH 102 or 172	4.0	Free Electives	6.0
BIO 107 & BIO 108	4.0	Natural Science course with Laboratory*	4.0-5.0	HSAD 310	3.0		
	7		**8-9**		**7**		**6**
Third Year							
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
CS 150**	3.0	ECON 201, 202, or 240	4.0	HSAD 335***	3.0	HSAD Elective	3.0
HSAD 322	3.0	HSAD 321	3.0	HSAD 345	3.0	Free Elective	3.0
	6		**7**		**6**		**6**
Fourth Year							
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
HSAD 334	3.0	ORGB 300***	4.0	HSAD 340	3.0	Free Electives	6.0
HSAD 330	3.0	Humanities/Social Science Elective	3.0	HSAD Elective	3.0		
	6		**7**		**6**		**6**
Fifth Year							
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
HSAD 332***	3.0	HSAD Electives	6.0	Humanities/Social Science Elective	4.0	Free Electives	6.0
Humanities/Social Science Elective	3.0			FREE ELECTIVE	3.0		
	6		**6**		**7**		**6**
Sixth Year							
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
HSAD 331***	3.0	HSAD Elective	6.0	HSAD Elective	3.0	Humanities/Social Science Elective	3.0
HSCI 345 or STAT 201	4.0-4.5			Humanities/Social Science Electives	3.0	Free Electives	6.0
	7-7.5		**6**		**6**		**9**
Seventh Year							
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
Free Electives	6.0	Humanities/Social Science Electives	6.0	Free Electives	6.0	Humanities/Social Science Electives	6.0
	6		**6**		**6**		**6**

Total Credits 180-182.5

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Students may select from Biology (BIO 100-499), Chemistry (CHEM 100-499) or HSCI 101, HSCI 102, or HSCI 103 courses. However, any course selected must include a laboratory component. Additional natural science subject options may be considered to meet the Natural Science requirement with the approval of the student's advisor.

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COM 230 may be used as a substitution for CS 150.

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HSAD 331 [WI] , HSAD 332 [WI] , HSAD 335 [WI] , and ORGB 300 [WI] are Writing Intensive courses that fulfil the Writing Intensive Course requirement. Students should avoid combining these courses in one term.

Program Level Outcomes

- Employ analytical and critical thinking skills to increase effectiveness and efficiency in the workplace and in the health care field
- Explain in detail the various ways that health care is funded in the United States and major variables that affect that change
- Give examples of and explain how socio-cultural, economic and political factors affect the health of a population
- Identify and use strategies to influence the health policy making process and serve as an advocate for improving the health of a community
- Identify basic management theories and principles and apply them to a health care setting
- Identify ethical principles relevant to health care systems and analyze health care or health administrative issues based on these principles
- Identify how policies, procedures and standards guide health care practice and professional behavior
- Identify the major health issues and underlying determinates in the U.S. and how they vary among special populations
- Name and be able to recognize in people some of the major characteristics, behaviors and management practices that researchers have shown to be exhibited by effective leaders in the health care field
- Name and explain the major components of the U.S. health care systems and public health services
- Utilize various technologies to access and manage information in a variety of health care settings

Health Services Administration Faculty

Jesse Ballenger, PhD *(Case Western Reserve University)*. Clinical Professor. Healthcare, medicine and ethics; aging and neurodegenerative diseases; Science and Technology Studies.

Fred DiCostanzo, EdD, RN *(Rowan University)*. Assistant Clinical Professor. Organizational leadership, Healthcare Management, Human resources and team effectiveness

Stephen F. Gambescia, PhD, MEd, MBA, MHum, MLS, MCHES *(Temple University)*. Clinical Professor. Health care policy, nonprofits and health care, and health care management and leadership.

Kevin Mitchell, PhD, MBA *(Walden University)*. Assistant Teaching Professor. Health Services Administration; continuous quality improvement, strategic health care management. Research interests include health disparities in vulnerable population, evidenced based medicine and clinical pharmacology and therapeutics.

Kristine A. Mulhorn, PhD, MHSA, FGSA *(University of Delaware) Chair, Department of Health Administration*. Clinical Professor. Disability and aging; long-term care and post-acute care administration, cross-national interventions for health aging

Constance Karin Perry, PhD, EMT *(University of Buffalo)*. Associate Professor. Biomedical ethics and ethical theory. Research interests include autonomy, personhood, feminist ethics, the ethics of animal experimentation, and ethical issues in reproduction and pregnancy.

Hospitality Management BSHM

Major: Hospitality Management
Degree Awarded: Bachelor of Science in Hospitality Management (BSHM)
Calendar Type: Quarter
Minimum Required Credits:183.0
Co-op Options: No Co-op (Four years), One Co-op (Four years); Three Co-op (Five years)
Classification of Instructional Programs (CIP) code: 52.0901
Standard Occupational Classification (SOC) code: 11-9051; 11-9081

NOTE: This program is no longer accepting applications as of the 2023-2024 academic year.

About the Program

The Hospitality Management major at Drexel University prepares students for leadership positions in the lodging, food service and tourism and gaming industries. It also provides the necessary foundation for graduate school.

The Hospitality Management program recognizes the critical importance of an interdisciplinary education with a global perspective for tomorrow's leaders and managers. Committed to building student knowledge across functional areas and contributing disciplines, the program allows for increased specialization with elective coursework in the following areas:

- Food and Beverage Management
- Gaming and Resort Management
- Travel and Tourism

- Hotel Administration
- Meeting and Event Planning

Home to one of the top hospitality programs in the region, Drexel prides itself on its reputation for progressive, high-quality education. The thriving metropolis of Philadelphia serves as the learning lab for these unique programs. As the sixth largest city in the United States, Philadelphia is in the midst of a restaurant renaissance featuring world-class cuisine and entertainment. Student-focused faculty members are recognized for their professional affiliations, research, published work and, above all, teaching.

Students also receive a Business Administration minor and have 24.0 credits of free elective to pursue a second minor option.

Additional Information

For more information, visit the Hospitality Management program's (https://drexel.edu/fhm/academics/Hospitality-and-Tourism/) website.

Program Delivery Options

Drexel's BS in Hospitality Management degree includes courses in the liberal arts, the humanities, language, sciences, hospitality management and culinary arts. A business administration minor is also included. The BS degree can be completed on a full-time or part-time basis:

Five-year option with three co-op experiences:

This option allows students to pursue a variety of professional experiences in the industry including the option to co-op abroad.

Full-time status evening option without co-op experience:

To be eligible, students should have a minimum of two years of full-time work experience related to students' majors and a minimum of one year of college-level work. Full-time students are eligible for full-time financial aid packages.

Part-time option without co-op experience:

Students work closely with academic advisors to develop a customized plan of study toward degree completion.

American University in Rome:

Every three years, the Drexel hospitality management faculty participate in a study and teach-abroad experience. Students are invited to spend the fall semester abroad in Rome, Italy and earn 18.0 credits. Students take two hospitality-related courses taught by a Drexel professor and two additional courses at AUR of their choosing. All course instruction is in English, but a term of ITAL 101 *Italian I* is a prerequisite for the experience. More information can be found on the Study Abroad website.

London option:

Students are invited to spend a term in their sophomore, junior or senior year in the Study Abroad Program (http://www.drexel.edu/studyabroad/), Drexel in London, while earning up to 18.0 credits. The program's emphasis is on the global implications of and opportunities within the hospitality industry.

Degree Requirements

General Education Requirements		
CIVC 101	Introduction to Civic Engagement	1.0
COM 181	Public Relations Principles and Theory	3.0
COM 230	Techniques of Speaking	3.0
COM 270 [WI]	Business Communication	3.0
COOP 101	Career Management and Professional Development	1.0
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
INFO 101	Introduction to Computing and Security Technology	3.0
MATH 107	Probability and Statistics for Liberal Arts	3.0
MATH 171	Introduction to Analysis A	3.0
MATH 172	Introduction to Analysis B	3.0
NFS 101	Introduction to Nutrition & Food	1.0
NFS 100	Nutrition, Foods, and Health	2.0
UNIV NH101	The Drexel Experience	1.0
Arts and Humanities Electives [*]		**15.0**
Social Science Electives [**]		**9.0**

Hospitality Major Requirements		
CULA 115	Culinary Fundamentals	3.0
FDSC 100	ServSafe	1.0
HRM 110	Introduction to the Hospitality Industry	3.0
HRM 120	Principles of Food-Service Management	3.0
HRM 125	Hotel Operations Management	3.0
HRM 130	Introduction to Tourism	3.0
HRM 131	Tourism Geography	3.0
HRM 150	Food & Beverage Customer Service	3.0
HRM 155	Hotel Customer Service	3.0
HRM 160	Laws of the Hospitality Industry	3.0
HRM 165	Introduction to the Events Industry	3.0
HRM 215	Commercial Food Production	4.0
HRM 220	Purchasing and Cost Controls for the Hospitality Industry	3.0
HRM 330	Hospitality Marketing and Branding	3.0
HRM 335	Beverage Management	3.0
HRM 355	Resort Management	3.0
HRM 415	Fine Dining and Services	4.0
HRM 425	Hospitality Industry Administration	3.0
HRM 450	Hospitality Leadership Seminar	3.0
HRM 455	Hospitality Human Resources Management	3.0
Industry Hours Requirements		
HRM 190	Industry Hours I	1.0
HRM 290	Industry Hours II	1.0
HRM 390	Industry Hours III	1.0
Program Electives ***		**12.0**
Business Administration Minor Requirement		
ACCT 110	Accounting for Professionals	4.0
ECON 201	Principles of Microeconomics	4.0
MIS 200	Management Information Systems	4.0
MKTG 201	Introduction to Marketing Management	4.0
ORGB 300 [WI]	Organizational Behavior	4.0
Complete one of the following courses to complete the BA minor:		
BLAW 201	Business Law I	4.0
or ECON 202	Principles of Macroeconomics	
or OPM 200	Operations Management	
or STAT 201	Introduction to Business Statistics	
Free Electives		**24.0**
Total Credits		**183.0**

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Three language courses are required from: ARBC, CHIN, FREN, GER, ITAL, JAPN, KOR, or SPAN and then one additional arts & humanities course from any of the above as well as ENGL, GST, HIST, HUM, JWST, LANG, LING, PHIL, WGST, or WRIT areas.

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Students may choose from ANTH, CJS, PSCI, PSY, and SOC courses.

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Choose additional Hospitality courses or courses from CULA or SMT.

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

4 year, no co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ENGL 101 or 111	3.0	CULA 115	3.0	CIVC 101	1.0	VACATION	
FDSC 100	1.0	ENGL 102 or 112	3.0	ENGL 103 or 113	3.0		
HRM 110	3.0	HRM 131	3.0	HRM 125	3.0		
HRM 130	3.0	HRM 150	3.0	MATH 107	3.0		
MATH 171	3.0	HRM 190	1.0	Arts & Humanities elective	4.0		
UNIV NH101	1.0	MATH 172	3.0				
	14		**16**		**14**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ACCT 110	4.0	HRM 155	3.0	COM 230	3.0	VACATION	
HRM 120	3.0	HRM 160	3.0	ECON 201	4.0		
NFS 100	2.0	HRM 165	3.0	MIS 200	4.0		
NFS 101	1.0	HRM 215	4.0	Free elective	3.0		
Arts & Humanities course	4.0	HRM 290	1.0	Program elective	3.0		
Free elective	3.0	Arts & Humanities course	4.0				
	17		**18**		**17**		**0**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
COM 270	3.0	COM 181	3.0	INFO 101	3.0	VACATION	
HRM 220	3.0	HRM 330	3.0	MKTG 201	4.0		
ORGB 300	4.0	HRM 390	1.0	Free elective	3.0		
Free elective	3.0	Free elective	3.0	Program elective	3.0		
Social Science elective	3.0	Program elective	3.0	Social Science elective	3.0		
	16		**13**		**16**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HRM 355	3.0	HRM 335	3.0	HRM 415	4.0	VACATION	
HRM 450	3.0	HRM 425	3.0	HRM 455	3.0		
Free elective	3.0	Arts & Humanities course	3.0	Free elective	4.0		
Program elective	3.0	Business course	4.0	Social Science elective	3.0		
		Free elective	3.0				
	12		**16**		**14**		**0**

Total Credits 183

4 year, 1 co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ENGL 101 or 111	3.0	CULA 115	3.0	CIVC 101	1.0	VACATION	
FDSC 100	1.0	ENGL 102 or 112	3.0	COOP 101*	1.0		
HRM 110	3.0	HRM 131	3.0	ENGL 103 or 113	3.0		
HRM 130	3.0	HRM 150	3.0	HRM 125	3.0		
MATH 171	3.0	HRM 190	1.0	MATH 107	3.0		
UNIV NH101	1.0	MATH 172	3.0	Arts & Humanities Elective	4.0		
	14		**16**		**15**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ACCT 110	4.0	HRM 155	3.0	COM 230	3.0	INFO 101	3.0
HRM 120	3.0	HRM 160	3.0	ECON 201	4.0	MKTG 201	4.0
NFS 100	2.0	HRM 165	3.0	MIS 200	4.0	Program elective	3.0
NFS 101	1.0	HRM 215	4.0	Program elective	3.0	Social Science elective	3.0
Arts & Humanities Elective	4.0	HRM 290	1.0	Free elective	3.0	Free elective	3.0

Free elective	3.0	Arts & Humanities Elective	4.0				
	17		**18**		**17**		**16**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
COM 270	3.0	COM 181	3.0	COOP EXPERIENCE		COOP EXPERIENCE	
HRM 220	3.0	HRM 330	3.0				
ORGB 300	4.0	HRM 390	1.0				
Social Science elective	3.0	Program elective	3.0				
Free elective	3.0	Free elective	3.0				
	16		**13**		**0**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits
HRM 355	3.0	HRM 335	3.0	HRM 415	4.0
HRM 450	3.0	HRM 425	3.0	HRM 455	3.0
Free elective	3.0	Arts & Humanities elective	3.0	Social Science elective	3.0
Program elective	3.0	Business elective	4.0	Free elective	3.0
		Free elective	3.0		
	12		**16**		**13**

Total Credits 183

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Students may be registered in a later term based on their co-op program (4-year or 5-year) and cycle. Select students may be eligible to replace COOP 101 with COOP 001.

5 year, 3 co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ENGL 101 or 111	3.0	CULA 115	3.0	CIVC 101	1.0	VACATION	
FDSC 100	1.0	ENGL 102 or 112	3.0	COOP 101	1.0		
HRM 110	3.0	HRM 131	3.0	ENGL 103 or 113	3.0		
HRM 130	3.0	HRM 150	3.0	HRM 125	3.0		
MATH 171	3.0	HRM 190	1.0	MATH 107	3.0		
UNIV NH101	1.0	MATH 172	3.0	Arts & Humanities Elective	4.0		
	14		**16**		**15**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ACCT 110	4.0	HRM 155	3.0	COOP EXPERIENCE±		COOP EXPERIENCE±	
HRM 120	3.0	HRM 160	3.0				
NFS 100	2.0	HRM 165	3.0				
NFS 101	1.0	HRM 215	4.0				
Arts & Humanities Elective	4.0	HRM 290	1.0				
Free Elective	3.0	Arts & Humanities Elective	4.0				
	17		**18**		**0**		**0**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
COM 230	3.0	INFO 101	3.0	COOP EXPERIENCE±		COOP EXPERIENCE±	
ECON 201	4.0	MKTG 201	4.0				
MIS 200	4.0	Program Elective	3.0				
Program Elective	3.0	Social Science Elective	3.0				
Free Elective	3.0	Free Elective	3.0				
	17		**16**		**0**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
COM 270	3.0	COM 181	3.0	COOP EXPERIENCE±		COOP EXPERIENCE±	
HRM 220	3.0	HRM 330	3.0				
ORGB 300	4.0	HRM 390	1.0				
Social Science Elective	3.0	Program Elective	3.0				

Free Elective	3.0	Free Elective	3.0		
	16		**13**	**0**	**0**

Fifth Year

Fall	Credits	Winter	Credits	Spring	Credits
HRM 355	3.0	HRM 335	3.0	HRM 415	4.0
HRM 450	3.0	HRM 425	3.0	HRM 455	3.0
Free Elective	3.0	Arts & Humanities Elective	3.0	Social Science Elective	3.0
Program Elective	3.0	Business Elective	4.0	Free Elective	3.0
		Free Elective	3.0		
	12		**16**		**13**

Total Credits 183

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Students may be registered in a later term based on their co-op program (4-year or 5-year) and cycle. Select students may be eligible to replace COOP 101 with COOP 001.

Facilities

The major facility of the Hospitality Management, Culinary Arts and Food Science programs is located on the sixth floor of the Academic Building. It is a 6,500-square-foot space that includes three state-of-the-art commercial kitchens, bakery and laboratories, as well as the Academic Bistro (http://www.drexel.edu/hsm/about/academic-bistro/), the student-run restaurant, bar and lounge. The facility also includes a sensory analysis lab, hospitality and gaming lab, conference room and the Les Dames d'Escoffier Library.

Philadelphia Location

A unique feature of the Hospitality Management program at Drexel is that it is located in Philadelphia, with close proximity to New York City, Baltimore and Washington, as well as the resort centers on the Atlantic seacoast and in the Pocono Mountains. These regions include hundreds of hotels, restaurants, resorts and casinos that are used for field trips and campus visits by hospitality resource professionals. Students also gain hands-on experience through faculty-directed field trips throughout the region.

Hospitality Management Faculty

Paul O'Neill, MEd *(Stockton University)*. Associate Professor. Customer Service, Restaurant Management, Event Planning, Wine, Beer and Spirits: Tastings and Service.

Paul O'Neill, MA *(La Salle University)*. Assistant Clinical Professor. Hospitality Management

Michael Traud, JD, EdD *(Villanova University, Drexel University) Program Director, Hospitality and Tourism Management*. Associate Clinical Professor. Implementation of Korean Cuisine in the United States; hospitality law; Italian cuisine.

Human Development and Counseling

Major: Human Development and Counseling
Degree Awarded: Bachelor of Science (BS)
Calendar Type: Quarter
Minimum Required Credits: 180.0
Co-op Options: One Co-op (Four years); No Co-op (Four years)
Classification of Instructional Programs (CIP) code: 51.1508
Standard Occupational Classification (SOC) code: 21-1011

About the Program

The Human Development and Counseling (HDC) program is a campus-based, full-time undergraduate degree program that offers students an innovative approach to education that is applied, interactive and experiential. Students complete required courses in human development across the lifespan, behavioral health care, professional ethics and career pathways in behavioral health taught by certified, licensed and experienced professionals. There are also major and free electives available based on a student's career interests including courses in counseling modalities and interventions, creative arts therapies, family therapy and salient health care workforce development needs, including addiction, aging and trauma. Diversity, equity, inclusion and social justice principles are incorporated across the rigorous curriculum. Students also have the opportunity to participate in experiential learning exercises via the College of Nursing and Health Profession's state-of-the-art Center for Inter-professional Clinical Simulation and Practice. The major also offers a co-op experience in a clinical setting that greatly enhances the student’s preparation for employment after graduation and for graduate study.

Additional Information

For more information about this major, visit the Counseling and Family Therapy Department (http://drexel.edu/cnhp/academics/departments/Counseling-and-Family-Therapy/) on the College of Nursing and Health Professions website.

Admission Requirements

For Entering Freshman

To review admission prerequisites, visit the Admission Prerequisites page.

To find admissions deadlines, apply online, check out financial aid information and find the current schedule for open houses, visit the Undergraduate Admissions site.

For Transferring Students

Our transfer policies are specifically designed to accommodate students applying from other colleges. Transfer students may enter the program at any point and transfer a maximum of 90 semester credits (135 quarter credits). The courses and credit values show how many general education credits can be transferred in at the discretion of the program. (Please note: This program is offered in quarter credits, not semester credits. One semester credit is equal to 1.5 quarter credits; therefore, a bachelor's degree worth 120 semester credits is equal to 180 quarter credits.)

To review transfer instructions, visit the Transfer Instructions page.

For International Students

To review transfer instructions, visit the International Instructions page.

Tuition and Fee Rates:

Please visit the Tuition and Fee Rates page on Drexel Central.

Compliance

The College of Nursing and Health Professions has a compliance process that may be required for every student. Some of these steps may take significant time to complete. Please plan accordingly.

Visit the Compliance pages for more information.

Degree Requirements

General Education Requirements		
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development *	1.0
UNIV NH101	The Drexel Experience	1.0
Computing/Communication Requirement		
CS 150	Computer Science Principles	3.0
or COM 230	Techniques of Speaking	
English		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Life Science		
BIO 101	Applied Biological Diversity, Ecology & Evolution	3.0
or BIO 107	Cells, Genetics & Physiology	
or BIO 161	General Biology I	
or BIO 164	General Biology Laboratory I	
Mathematics		
MATH 107	Probability and Statistics for Liberal Arts	3.0
or MATH 100	Fundamentals of Mathematics	
Humanities and Social Sciences		
ANTH 101	Introduction to Cultural Diversity	3.0
PSY 240 [WI]	Abnormal Psychology	3.0
SOC 101	Introduction to Sociology	3.0
History elective **		3.0

Free electives		36.0
Humanities/Social Science elective ***		30.0
Human Development and Counseling Courses Required		
BACS 100	Life Span Human Development	3.0
BACS 101	Human Sexuality	3.0
BACS 200	Foundation of Behavioral Health Care	3.0
BACS 232	Ethics and Professional Responsibility	3.0
BACS 345	Careers in Behavioral Health	3.0
BACS 430	Behavioral Health and Aging	3.0
Human Development and Counseling Electives †		**63.0**
BACS 211	Introduction to Poetry Therapy	
BACS 212	Therapeutic Gaming	
BACS 213	Visual Arts and Community Engagement	
BACS 214	Interpersonal Skills and Group Dynamics	
BACS 215	Ecological Frameworks of Wellness	
BACS 220	Counseling Theory and Practice	
BACS 234	Introduction to Addictive Disorders	
BACS 236 [WI]	Psychiatric Rehabilitation Principles and Practices	
BACS 255	Multicultural Counseling	
BACS 300	Poetry and Biblio Peer Group Facilitation	
BACS 301	Group Counseling I	
BACS 310	Recovery and Relapse Prevention	
BACS 312	Case Management Methods	
BACS 313	Foundations of Art Therapy: Theory and Practice	
BACS 314	Introduction to Music Therapy	
BACS 315	Introduction to Family Therapy	
BACS 320	Crisis and Brief Intervention	
BACS 360	Preventing Substance Abuse	
BACS 368	Addictions Counseling with Special Populations	
BACS 380	Trauma-Informed Care	
BACS 400	Poetry and Biblio Facilitation Fieldwork and Supervision	
BACS 401 [WI]	Assessment and Treatment Planning	
BACS 414	Co-Occurring Disorders	
BACS 420	Psychiatric Rehabilitation Competencies	
DANC 221	Survey of Dance and Movement Therapy	
Total Credits		**180.0**

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COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

Students not participating in co-op will not take COOP 101; 1 credit of Free Elective will be added in place of COOP 101.

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Students may register for any non-required course in HIST 101-499 to meet their History Elective requirement

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Students may register for any non-required 100-499 course in: AFAS, COM, ENGL, GST, MATH, PSY, SOC, and WGST to meet their Humanities/Social Science electives. Students wishing to apply a course from other course subject areas are encouraged to consult their advisors.

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Students may register for any non-required course in BACS 200-499 to meet their Human Development and Counseling elective requirement.

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-

philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

4 year, no co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ANTH 101	3.0	BIO 101, 107, 161, or 164	3.0	BACS 101	3.0	VACATION	
BACS 100	3.0	ENGL 102 or 112	3.0	CIVC 101	1.0		
ENGL 101 or 111	3.0	MATH 107 or 100	3.0	ENGL 103 or 113	3.0		
SOC 101	3.0	Free elective	3.0	PSY 240	3.0		
UNIV NH101	1.0	HDC elective	3.0	Free elective	3.0		
				Humanities/Social Science elective	3.0		
	13		**15**		**16**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BACS 232	3.0	BACS 200	3.0	HDC electives	9.0	VACATION	
HDC elective	3.0	CS 150 or COM 230	3.0	Humanities/Social Science elective	3.0		
History elective	3.0	HDC elective	3.0	Free elective	4.0		
Humanities/Social Science elective	3.0	Humanities/Social Science Elective	3.0				
Free elective	3.0	Free elective	3.0				
	15		**15**		**16**		**0**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BACS 430	3.0	BACS 345	3.0	HDC electives	6.0	VACATION	
HDC electives	6.0	HDC electives	6.0	Humanities/Social Science elective	3.0		
Humanities/Social Science elective	3.0	Humanities/Social Science elective	3.0	Free electives	6.0		
Free elective	3.0	Free elective	3.0				
	15		**15**		**15**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits
HDC electives	9.0	HDC electives	9.0	HDC electives	9.0
Humanities/Social Science elective	3.0	Humanities/Social Science elective	3.0	Humanities/Social Science elective	3.0
Free elective	3.0	Free elective	3.0	Free elective	3.0
	15		**15**		**15**

Total Credits 180

4 year, one co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ANTH 101	3.0	BIO 101, 107, 161, or 164	3.0	BACS 101	3.0	VACATION	
BACS 100	3.0	ENGL 102 or 112	3.0	CIVC 101	1.0		
ENGL 101 or 111	3.0	MATH 107 or 100	3.0	ENGL 103 or 113	3.0		
UNIV NH101	1.0	Humanities/Social Science elective	3.0	PSY 240	3.0		
SOC 101	3.0	Free elective	3.0	HDC elective	3.0		
Free elective	3.0			Humanities/Social Science electives	3.0		
	16		**15**		**16**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BACS 232	3.0	BACS 200	3.0	COOP 101*	1.0	Free electives	12.0
HDC electives	6.0	CS 150 or COM 230	3.0	HDC electives	6.0		

History elective	3.0	HDC electives	6.0	Humanities/Social Science elective	3.0		
Humanities/Social Science elective	3.0	Humanities/Social Science elective	3.0	Free electives	6.0		
	15		**15**		**16**		**12**

Third Year

Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
BACS 430	3.0	BACS 345	3.0	COOP EXPERIENCE		COOP EXPERIENCE	
HDC electives	9.0	HDC electives	9.0				
Humanities/Social Science elective	3.0	Humanities/Social Science elective	3.0				
		Free elective	3.0				
	15		**18**		**0**		**0**

Fourth Year

Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**
HDC electives	9.0	HDC electives	9.0	HDC electives	6.0
Humanities/Social Sciences elective	3.0	Humanities/Social Sciences elective	3.0	Humanities/Social Science elective	3.0
Free elective	3.0	Free elective	3.0	Free elective	3.0
	15		**15**		**12**

Total Credits 180

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COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

Program Level Outcomes

Upon completion of the HDC program, students demonstrate knowledge and skill related to the following areas:

- Establishes Rapport: Listen, communicate and collaborate effectively; establish and maintain a therapeutic relationship; believe in the inherent capacity of any person to learn and grow; establish relationships characterized by respect, authenticity and empathy.
- Cultural Competence: Recognize differences in age, culture, ethnicity, religion, ability, gender and sexual orientation; understand and incorporate the person's frame of reference when developing and delivering services and supports.
- Assessment and Planning: Conduct a comprehensive bio-psychosocial assessment and collaboratively develop plans based on client choice and need; recognize commonly used screening, assessment and diagnostic methods for evaluating persons with psychiatric and substance use disorders; apply assessment data to individualized treatment/service plans; integrate community resources and natural supports into service planning and delivery
- Recovery Process: Assess the characteristics of behavioral health disorders across the lifespan; facilitate the recovery process by using client-centered, strengths-based approaches, motivational enhancement strategies and stage-wise interventions; support client strengths and foster self-determination; teach skills and develop accommodations to support people in recovery
- Evidence-Based Practices / Research – Explain current evidence-based and emerging best practices in the treatment of behavioral health disorders; understand important research terms and concepts; critically evaluate published behavioral health research; Understand the role of psychopharmacology in the process of recovery; identify the primary medication types used in pharmacological treatment and their mechanisms of action
- Group Leadership: Choose methods associated with various types of groups based on therapeutic goals; provide effective facilitation of group process to achieve goals; understand when and how to intervene (e.g. limit setting, reality testing, reflection of feelings, providing information)
- Relapse Prevention / Crisis Intervention: Summarize the value of crisis prevention; assess the potential for a crisis and respond appropriately, including seeking assistance as needed
- Family Support: Evaluate the unique needs of caregivers of people with serious behavioral health disorders; engage and support families in the recovery process.
- Advocacy and Systems Integration: Identify and differentiate the role of agencies and programs across systems of care; advocate and facilitate utilization of the service system and natural community supports; work collaboratively across service systems and disciplines;
- Teamwork: Work collaboratively with other professionals to support an integrated treatment approach; understand the professional roles within an interdisciplinary treatment team; provide information that facilitates treatment coordination; appropriately raise questions and address differences in point of view.
- Ethics / Professionalism: Apply basic ethical standards and practices associated with community support work; understand personal abilities and limitations and identify personal values and biases; cultivate awareness of self in the counseling relationship; understand that rights, most importantly the rights of self-determination and failure, are at the core of ethical practices; demonstrate flexibility, patience, persistence and tolerance; manage ambiguity

- Documentation and Written Communication: Adhere to the standards of APA style for professional writing; recognize the content and organization of the clinical record; make concise, grammatically correct and legible entries into the client record.

Nursing BSN

Major: Nursing
Degree Awarded: Bachelor of Science Degree in Nursing (BSN)
Calendar Type: Quarter
Minimum Required Credits: 181.0
Co-op Options: Three Co-op (Five years); One Co-op (Four years or three-year transfer option); No Co-op (Two-year transfer student option only)
Classification of Instructional Programs (CIP) code: 51.3801
Standard Occupational Classification (SOC) code: 29-1141

About the Program

The BS in Nursing (BSN) is a full-time, four-year option with one six-month co-op experience in the third year of study. There is also a five-year program that offers three six-month co-op experiences. For eligible transfer students, we offer a one co-op option with a three-year progression and a no co-op option which allows students to complete the nursing coursework in two full academic years. Students graduate with a Bachelor of Science in Nursing and are eligible to sit for the RN licensure examination.

The BS in Nursing degree is approved by the Pennsylvania State Board of Nursing 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 students' needs. The graduate of the Bachelor of Science in Nursing Program of Drexel University is prepared to:

- Apply concepts from liberal arts to nursing practice.
- Demonstrate leadership behaviors that enhance patient safety and quality care.
- Apply research-based evidence to nursing practice.
- Integrate technology to support clinical decision-making in patient-centered care.
- Examine health care policy and financial/regulatory environments that influence the delivery of health care.
- Foster caring and collaborative relationships with self, patient and the health care community that provide positive outcomes.
- Practice culturally congruent care that addresses health promotion and disease prevention.
- Assimilate ethical principles and professional standards into practice using evidence-based clinical judgment.
- Apply age-specific knowledge to provide safe, competent care across the lifespan.
- Pursue lifelong learning as a means to enhance practice.

A BSN is awarded at the completion of the program.

Additional Information

For more information about the BSN with co-op option at Drexel, visit the Nursing Co-Op Program (https://drexel.edu/cnhp/academics/undergraduate/bsn-nursing-co-op/) page.

Degree Requirements

Students should contact their academic advisor for any changes to their plans of study prior to registration due to ongoing curriculum updates.

General requirements		
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development *	1.0
UNIV NH101	The Drexel Experience	1.0
English Sequence		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Biology/Nutrition courses		
BIO 226	Microbiology for Health Professionals	5.0
NFS 220	Normal & Lifespan Nutrition	4.0
NFS 315	Nutrition in Chronic Disease	4.0

Chemistry courses		
CHEM 103	General Chemistry III	4.5
CHEM 108	Health Chemistry I	3.0
Humanities and Social Science courses		
ECON 240	Economics of Health Care Systems	4.0
HSAD 210	Health-Care Ethics I	3.0
PSY 101	General Psychology I	3.0
PSY 120	Developmental Psychology	3.0
SOC 101	Introduction to Sociology	3.0
Language Requirement **		**4.0**
Mathematics/Data Analysis courses		
HSCI 345	Statistics for Health Sciences	4.5
MATH 101	Introduction to Analysis I ***	4.0
Anatomy courses		
HSCI 101	Anatomy and Physiology I	5.0
HSCI 102	Anatomy and Physiology II	5.0
HSCI 103	Anatomy and Physiology III	5.0
Nursing courses		
NURS 120	Contemporary Health Care	3.0
NURS 221	Concepts of Pathophysiology in Nursing	3.0
NURS 225	Health Assessment for Nursing Practice	5.0
NURS 226	Fundamentals of Nursing Practice	6.0
NURS 317 [WI]	Genetics for Healthcare Professionals	3.0
NURS 320	Health and Illness Concepts I	6.0
NURS 321	Health and Illness Concepts II	6.0
NURS 322	Concepts of Mental Health Nursing	6.0
NURS 323	Nursing Pharmacology Concepts I	3.0
NURS 326	Reproductive Health Across the Lifespan	6.0
NURS 327	Population Health Concepts	6.0
NURS 328	Pediatric Health Concepts	6.0
NURS 329	Nursing Pharmacology Concepts II	3.0
NURS 420	Health and Illness Concepts III	6.0
NURS 421	Holistic Gerontological Nursing	6.0
NURS 422	Leadership Concepts in Nursing	3.0
NURS 423 [WI]	Research Basis of Nursing Practice	4.0
NURS 495	Comprehensive Nursing Concepts	3.0
Electives		
Humanities electives		3.0
Social Science electives		3.0
Nursing electives		9.0
Free electives		6.0
Total Credits		**181.0**

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Students not participating in co-op will not take COOP 101; 1 credit of Free Elective will be added in place of COOP 101.

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Students must take one approved language course, as determined by student's Academic Advisor

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Or other mathematics equivalent by placement exam.

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-

philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

Students should contact their academic advisor for any changes to their plans of study prior to registration due to ongoing curriculum updates.

4-year, 1 Co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ENGL 101 or 111	3.0	ENGL 102 or 112	3.0	BIO 226	5.0	VACATION	
HSCI 101	5.0	HSCI 102	5.0	CIVC 101	1.0		
MATH 101	4.0	PSY 101	3.0	ENGL 103 or 113	3.0		
NURS 120	3.0	SOC 101	3.0	HSCI 103	5.0		
UNIV NH101	1.0	Language Requirement	4.0	Humanities Elective	3.0		
	16		**18**		**17**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CHEM 108	3.0	CHEM 103	4.5	COOP 101*	1.0	NFS 220	4.0
ECON 240	4.0	NURS 225	5.0	NURS 317	3.0	NURS 321	6.0
NURS 221	3.0	NURS 226	6.0	NURS 320	6.0	NURS 329	3.0
Social Science Elective	3.0			NURS 323	3.0		
				PSY 120	3.0		
	13		**15.5**		**16**		**13**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSAD 210	3.0	NFS 315	4.0	COOP EXPERIENCE		COOP EXPERIENCE	
HSCI 345	4.5	NURS 328	6.0				
NURS 322	6.0	NURS 423	4.0				
Free Elective	3.0	Free Elective	3.0				
	16.5		**17**		**0**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits
NURS 327	6.0	NURS 326	6.0	NURS 421	6.0
NURS 420	6.0	Nursing Elective	6.0	NURS 495	3.0
NURS 422	3.0			Nursing Elective	3.0
	15		**12**		**12**

Total Credits 181

*****

Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major. COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

5-year, 3 Co-ops

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ENGL 101 or 111	3.0	ENGL 102 or 112	3.0	BIO 226	5.0	VACATION	
HSCI 101	5.0	HSCI 102	5.0	CIVC 101	1.0		
MATH 101	4.0	PSY 101	3.0	COOP 101*	1.0		
NURS 120	3.0	SOC 101	3.0	ENGL 103 or 113	3.0		
UNIV NH101	1.0	Language Requirement	4.0	HSCI 103	5.0		
				Humanities Elective	3.0		
	16		**18**		**18**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CHEM 108	3.0	CHEM 103	4.5	COOP EXPERIENCE		COOP EXPERIENCE	
ECON 240	4.0	NURS 225	5.0				
NURS 221	3.0	NURS 226	6.0				

Social Science elective	3.0						
	13		**15.5**		**0**		**0**
Third Year							
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
NURS 317	3.0	NFS 220	4.0	COOP EXPERIENCE		COOP EXPERIENCE	
NURS 320	6.0	NURS 321	6.0				
NURS 323	3.0	NURS 329	3.0				
PSY 120	3.0						
	15		**13**		**0**		**0**
Fourth Year							
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
HSAD 210	3.0	NFS 315	4.0	COOP EXPERIENCE		COOP EXPERIENCE	
HSCI 345	4.5	NURS 328	6.0				
NURS 322	6.0	NURS 423	4.0				
Free Elective	3.0	Free Elective	3.0				
	16.5		**17**		**0**		**0**
Fifth Year							
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**		
NURS 327	6.0	NURS 326	6.0	NURS 421	6.0		
NURS 420	6.0	Nursing electives	6.0	NURS 495	3.0		
NURS 422	3.0			Nursing Elective	3.0		
	15		**12**		**12**		

Total Credits 181

*

Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major. COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

About the Co-op

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

Second Experience

Co-op II: Acute and Chronic Health and Illness

Students on the four-year track participate in Co-op II, an educational experience in the traditional health care environment that emphasizes 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 the role of unlicensed assistive personnel or nursing externs.

Third Experience

Co-op III: Specialty Nursing Concentration

Students will have cooperative 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.

Clinical Affiliations

Clinical Placement Sites

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

Abington Memorial Hospital
Albert Einstein Medical Center
ARC
Althea Wright House
Belmont Center
Bryn Mawr Hospital
Paoli Hospital
Casa Farnese
Catholic Social Services
Center for Urban Development
Cooper University Hospital
Chandler Hall
Chestnut Hill Hospital
CHOP (Children's Hospital of Philadelphia)
Christiana Care (Wilmington Hospital)
Chester County Hospital
Crozer-Chester Medical Center
Delaware County Memorial Hospital
Devereaux Children's Behavioral Health Center
Doylestown Hospital
Fairmount Behavioral Health
Fox Chase Cancer Center
Foulkeways at Gwynedd
Friends Hospital
Gladys B Jacobs
Good Shepherd Penn Partners
Gray Manor
Harrison Community Center
Holy Redeemer Hospital and Medical Center
Hospital of the University of Pennsylvania
Inspira Medical Center
Jefferson Bucks, Jefferson Torresdale
Jefferson Stratford Hospital
Kirkbride Center
Landsdale Hospital (Abington Health)
Lankenau Hospital
Lourdes Medical Center
Masonic Homes
Mercy Hospital
Methodist Hospital
Moss Rehab - AEMC
Nazareth Hospital
Norris Square
North East Treatment Centers
Our Brother's Place
Our Lady of Lourdes
Paul's Run
Pediatria
Pennsylvania Hospital
Philadelphia School District
Presbyterian Medical Center
Rejuvenations at Fair Acres
Riddle Memorial Hospital
School District of Philadelphia

St. Christopher’s Hospital for Children
St. John's Hospice
St. Joseph's Manor
St. Joseph's Villa
St. Mark's
St. Mary's Medical Center
S.H.A.R.E.
Shriners Hospital for Children
SPIN, Inc.
Spring Hospital
Stephen and Sandra Sheller 11th Street Family Health Services
Sunday Breakfast
Taylor Hospital
Temple University Hospital
Temple Children's Hospital
Thomas Jefferson University Hospital
United Methodist Communities
Village of Arts and Humanities
Virtua Health (Voorhees, Marlton, Memorial)
Watermark
West Popular Community Center
Willowcrest
Yorktown Manor
YMCA

Program Level Outcomes

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

- Apply concepts from liberal arts to nursing practice
- Demonstrate leadership behaviors that enhance patient safety and quality care
- Utilize multiple technologies to access and manage information to guide professional practice
- Apply research-based evidence to nursing practice
- Integrate technology to support clinical decision-making in patient-centered care
- Examine health care policy and financial/regulatory environments that influence the delivery of health care
- Foster caring and collaborative relationships with self, patient and the health care community that provide positive outcomes
- Practice culturally congruent care that addresses health promotion and disease prevention
- Assimilate ethical principles and professional standards into practice using evidence-based clinical judgment
- Apply age-specific knowledge to provide safe, competent care across the lifespan
- Pursue life-long learning as a means to enhance practice

Nursing Faculty

Joyce Brill, PhD, RN, CPNP-AC. Assistant Clinical Professor. Pediatric critical care and pediatric rehabilitation

Linda Celia, DNP, RN-BC *(Drexel University)*. Assistant Clinical Professor. Adult medical-surgical nursing and telemetry.

Beth Chiatti, PhD, RN, CTN, CSN *(Widener University)*. Assistant Clinical Professor. Genetics, transcultural nursing, immigrant health, human rights and global health

Danielle Devine, PhD, RN *(Villanova University)*. Assistant Clinical Professor. Neurology, Critical Care.

Gloria Donnelly, PhD *(Bryn Mawr College) Dean Emerita*. Professor. Nursing education and a variety of mental health topics including assertiveness, stress and change.

Jane Donovan, PhD, RNC -MNN *(Widener University)*. Assistant Clinical Professor. Maternal-newborn and gynecological nursing, intellectual and development disabilities nursing, nursing administration, nursing education.

Theresa Fay-Hillier, DrPH, MSN, PMHCNS-BC *(Drexel University)*. Assistant Clinical Professor. Child, adolescent and family mental health nursing.

Maryann Godshall, PhD, RN, CCRN, CPN, CNE *(Duquesne University)*. Associate Clinical Professor. Pediatrics, critical care, nursing education, pediatric burn patients.

Maureen Gonzales, MSN, WHNP *(University of Pennsylvania)*. Assistant Clinical Professor. Women's health, high risk obstetrics.

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Elizabeth Ward, MSN, RN, FNO-BC, CORLN *(Drexel University)*. Assistant Clinical Professor. Family nurse practitioner, nursing leadership and education, pediatric otolaryngology.

Denise Way, DNP, MSN, RN *(Wilmington University)*. Assistant Clinical Professor. Osteoporosis prevention throughout the lifespan.

Joyce Welliver, MSN, CRNP, CAC, RN *(Drexel University)*. Assistant Clinical Professor. Psychiatric/mental health nursing, adult health

Mary Yost, PhD, RN *(Widener University) Chair of the BSN Co-Op Program*. Associate Clinical Professor. Trauma/Critical Car and Emergency Nursing.

Mary Ann Zimmer, PhD, RN, MSN, CPN *(Villanova University)*. Assistant Clinical Professor. Pediatrics, adult medical-surgical nursing, nursing education.

Nursing (BSN) - Accelerated Career Entry (ACE)

Major: Nursing
Degree Awarded: Bachelor of Science Degree in Nursing (BSN)
Calendar Type: Quarter
Minimum Required Credits: 218.0
Co-op Options: None
Classification of Instructional Programs (CIP) code: 51.3801
Standard Occupational Classification (SOC) code: 29-1141

About the Program

Drexel University offers the Accelerated Career Entry Option (https://www.drexel.edu/cnhp/academics/undergraduate/Accelerated-Career-Entry-to-Nursing-Program/), 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.

Additional Information

For more information about this program, please contact askcnhp@drexel.edu.

Admission Requirements/Prerequisites

Candidates for admission must be college graduates with a 3.0 overall GPA or a 3.0 GPA in their most recent 60.0 semester hours of coursework completed. Admitted students must complete all prerequisites before continuing with the program. Applicants whose native language is not English and/or were born outside of the United States are required to take both the TOEFL (Test of English as a Foreign Language) and the TSE (Test of Spoken English) and achieve a passing score in each.

Degree Requirements

Prerequisites

The following 8 courses, in semester terms, are prerequisites for the ACE program:

Degree Requirements

Students should contact their academic advisor for any changes to their plans of study prior to registration due to ongoing curriculum updates.

Prerequisites:**

General Chemistry I with Lab	4.0
Developmental Psychology	3.0
Anatomy with lab *	4.0
Physiology with lab *	4.0
Microbiology with lab *	4.0
Human Nutrition	3.0
Statistics	3.0
English Composition	3.0

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

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Drexel University requires 180.0 quarter credits for conferral of a Bachelor's degree. Students will transfer in 134.0 quarter credits, 96.0 quarter credits from their previous Bachelor Degree and 38.0 quarter credits from their pre-requisites totaling 134.0 quarter credits. Upon completion of the NACE program they will receive an additional 84.0 quarter credits, bringing the total to 218.0 quarter credits.

NURS 120	Contemporary Health Care	3.0
NURS 221	Concepts of Pathophysiology in Nursing	3.0
NURS 225	Health Assessment for Nursing Practice	5.0
NURS 226	Fundamentals of Nursing Practice	6.0
NURS 317 [WI]	Genetics for Healthcare Professionals	3.0
NURS 320	Health and Illness Concepts I	6.0
NURS 321	Health and Illness Concepts II	6.0
NURS 322	Concepts of Mental Health Nursing	6.0
NURS 323	Nursing Pharmacology Concepts I	3.0
NURS 326	Reproductive Health Across the Lifespan	6.0
NURS 327	Population Health Concepts	6.0
NURS 328	Pediatric Health Concepts	6.0
NURS 329	Nursing Pharmacology Concepts II	3.0
NURS 420	Health and Illness Concepts III	6.0
NURS 421	Holistic Gerontological Nursing	6.0

NURS 422	Leadership Concepts in Nursing	3.0
NURS 423 [WI]	Research Basis of Nursing Practice	4.0
NURS 495	Comprehensive Nursing Concepts	3.0
Total Credits		**84.0**

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

11-Month Plan of Study

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
NURS 120	3.0	NURS 320	6.0	NURS 321	6.0	NURS 327	6.0
NURS 221	3.0	NURS 322	6.0	NURS 326	6.0	NURS 420	6.0
NURS 225	5.0	NURS 323	3.0	NURS 328	6.0	NURS 422	3.0
NURS 226	6.0	NURS 421	6.0	NURS 329	3.0	NURS 423	4.0
NURS 317	3.0					NURS 495	3.0
	20		**21**		**21**		**22**

Total Credits 84

24- Month Plan of Study

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
NURS 120	3.0	NURS 225	5.0	NURS 320	6.0	NURS 321	6.0
NURS 221	3.0	NURS 226	6.0	NURS 323	3.0	NURS 329	3.0
NURS 317	3.0						
	9		**11**		**9**		**9**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
NURS 326	6.0	NURS 421	6.0	NURS 322	6.0	NURS 420	6.0
NURS 328	6.0	NURS 423	4.0	NURS 327	6.0	NURS 422	3.0
						NURS 495	3.0
	12		**10**		**12**		**12**

Total Credits 84

+

Drexel's Accelerated Career Entry in Nursing program admits new students in Fall and Spring terms each year. Students that begin in Spring will progress in the same sequence as indicated above.

Program Level Outcomes

- Apply concepts from liberal arts to nursing practice
- Demonstrate leadership behaviors that enhance patient safety and quality care
- Utilize multiple technologies to access and manage information to guide professional practice
- Apply research-based evidence to nursing practice
- Integrate technology to support clinical decision making in patient-centered care
- Examine health care policy and financial/regulatory environments that influence the delivery of health care
- Foster caring and collaborative relationships with self, patient and the health care community that provide positive outcomes
- Practice culturally congruent care that addresses health promotion and disease prevention

- Assimilate ethical principles and professional standards into practice using evidence-based clinical judgment
- Apply age-specific knowledge to provide safe, competent care across the lifespan
- Pursue life-long learning as a means to enhance practice

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Jane Donovan, PhD, RNC -MNN *(Widener University)*. Assistant Clinical Professor. Maternal-newborn and gynecological nursing, intellectual and development disabilities nursing, nursing administration, nursing education.

Theresa Fay-Hillier, DrPH, MSN, PMHCNS-BC *(Drexel University)*. Assistant Clinical Professor. Child, adolescent and family mental health nursing.

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Elizabeth Ward, MSN, RN, FNO-BC, CORLN *(Drexel University)*. Assistant Clinical Professor. Family nurse practitioner, nursing leadership and education, pediatric otolaryngology.

Denise Way, DNP, MSN, RN *(Wilmington University)*. Assistant Clinical Professor. Osteoporosis prevention throughout the lifespan.

Joyce Welliver, MSN, CRNP, CAC, RN *(Drexel University)*. Assistant Clinical Professor. Psychiatric/mental health nursing, adult health

Mary Yost, PhD, RN *(Widener University) Chair of the BSN Co-Op Program*. Associate Clinical Professor. Trauma/Critical Car and Emergency Nursing.

Mary Ann Zimmer, PhD, RN, MSN, CPN *(Villanova University)*. Assistant Clinical Professor. Pediatrics, adult medical-surgical nursing, nursing education.

Nursing: RN/BSN Completion Program

Major: Nursing
Degree Awarded: Bachelor of Science in Nursing (BSN)
Calendar Type: Quarter
Minimum Required Credits: 180.0 quarter credits (for Registered Nurses)
Co-op Options: None
Classification of Instructional Programs (CIP) code: 51.3801
Standard Occupational Classification (SOC) code: 29-1141

About the Program

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

The Bachelor of Science in Nursing program continues the education of registered nurses equipping them with the skills needed for complex health care environments. Core courses immerse the student in genetics, evidence-based practice, systems thinking, leadership and care coordination. Interactive practice experiences are woven throughout the curriculum using innovative learning technologies (e.g. digital clinical learning environments [DCE], problem-based/video case studies and global classrooms). Learning how to adopt evidence-based practice to both clinical and leadership roles prepares students to work in interprofessional teams and improve health care systems and patient outcomes.

A BSN is awarded at the completion of the program. Qualified students are encouraged to apply to an MSN program in their final quarter for seamless progression.

State restrictions *(*https://online.drexel.edu/about/state-regulations.aspx*) may apply.*

The RN to BSN program at Drexel University is accredited by the Commission on Collegiate Nursing Education *(*https://www.aacnnursing.org/CCNE/*).*

Additional Information

Additional information is available on Drexel's College of Nursing and Health Professions RN-BSN Completion Program (https://drexel.edu/cnhp/academics/undergraduate/RN-to-BSN-Completion-Program/) webpage and on the Drexel University Online R (http://online.drexel.edu/online-degrees/nursing-degrees/msn-clinical/)N-BSN Completion Program (https://www.online.drexel.edu/online-degrees/nursing-degrees/rn-bsn/) webpage.

Admission Requirements/Prerequisites

Admission Requirements

- RN licensure (provisional acceptance will generally be offered pending successful completion of the NCLEX-RN examination)
- Official college transcripts
- College grade point average of 2.0 or better
- High school degree or equivalent

To be eligible for admission to the Bachelor of Science in Nursing program, students must have completed 60.0 semester hours (90.0 quarter credits) of college prerequisites, as follows, with a grade of C or better. Students may transfer in up to 135.0 quarter credits. Remaining credits will be evaluated on an individual basis. To graduate, students must have completed 180.0 quarter credits.

The required 60.0 semester hours include:

English (includes one semester of composition)	6.0
Humanities (studio courses not acceptable)	3.0
Anatomy and Physiology	8.0
Microbiology	4.0
Sociology	3.0
Growth and Development	3.0
Psychology	3.0
Nursing	30.0
Total Credits	**60.0**

Students must be graduates of nursing programs that are both regionally accredited and accredited by the Accreditation Commission for Education for Nursing (ACEN) or the National League for Nursing Commission for Education Accreditation (CNEA). Students who meet the criteria of the

Pennsylvania Nursing Articulation Model will receive credit for 30.0 semester hours (45.0 quarter credits) of nursing, which may be applied toward the program entrance requirements.

Degree Requirements

The College of Nursing and Health Professions faculty uses a variety of teaching and learning methods to facilitate the achievement of a student's personal objectives. All RN-BSN courses are offered online and incorporate a variety of innovative, interactive learning technologies. Courses are offered in both asynchronous and synchronous formats that allow the student flexibility in completing coursework over 10 week quarters.

Students should contact their academic advisor prior to registration.

TIER 1 COURSES		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Or transfer in 2 English courses (3 semester credits from a semester school) must include one semester of composition)		
Humanities Electives		3.0
Intro to Sociology		3.0
General Psychology		3.0
Developmental Psychology		3.0
Nursing Electives		45.0
Anatomy & Physiology I & II (w/ Labs)		10.0
Microbiology w/ Lab		5.0
Science Elective		3.0
TIER 2 COURSES		
Into to Computer Science of Communication		3.0
Statistics of the Health Sciences		4.0
Health Care Economics, Macro, or Micro		4.0
Health Care Ethics I or Advanced Health Care Ethics		3.0
Social Science Electives		3.0
Science Electives		6.0
Pharmacology or Advanced Physiology or Pathophysiology		5.0
Open Electives		23.0
TIER 3 COURSES		
NURS 333	Appreciative Inquiry into Nursing: Science, Theory, and Patterns of Knowing	4.5
NURS 334	Nursing Research: Investigations to Improve Health Outcomes	4.5
NURS 341	Using Genetics and Genomics to Inform Nursing Care Delivery	4.5
NURS 342	Inclusive and Equitable Health Assessment: Promoting Health; Respecting Diversity	4.5
NURS 343	Leading and Managing Complex Systems of Health	4.5
NURS 344	Safety Science and Quality Improvement: Delivering a Safe and Excellent Care Experience	4.5
NURS 347	Educating Patients, Professionals, and the Public to Improve Health Outcomes	4.5
NURS 348	Responding to the Challenges of Global and Population-based Health Needs	4.5
NURS 349	Transitions of Care: Investigating Palliative Care and End-of-Life Care across the Life Span	4.5
NURS 351	Healthy Aging: Personal and Professional Opportunities to Promote Aging Well	4.5
Total Credits		**180.0**

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

The Accelerated RN-BSN program is designed to be completed in 4 terms. Enrollment in Tier III assumes the student has completed an ADN or Diploma program, has passed the NCLEX-RN, and has completed all required coursework in TIER I and TIER II.

TIER III

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
NURS 333	4.5	NURS 342	4.5	NURS 347	4.5	NURS 349	4.5
NURS 334	4.5	NURS 343	4.5	NURS 348	4.5	NURS 351	4.5
NURS 341	4.5	NURS 344	4.5				
	13.5		**13.5**		**9**		**9**

Total Credits 45

Program Level Outcomes

- Apply concepts from liberal arts to nursing practice
- Demonstrate leadership behaviors that enhance patient safety and quality care
- Utilize multiple technologies to access and manage information to guide professional practice
- Apply research-based evidence to nursing practice
- Integrate technology to support clinical decision-making in patient-centered care
- Examine health care policy and financial/regulatory environments that influence the delivery of health care
- Foster caring and collaborative relationships with self, patient and the health care community that provide positive outcomes
- Practice culturally congruent care that addresses health promotion and disease prevention
- Assimilate ethical principles and professional standards into practice using evidence-based clinical judgment
- Apply age-specific knowledge to provide safe, competent care across the lifespan
- Pursue life-long learning as a means to enhance practice

Nursing Faculty

Joyce Brill, PhD, RN, CPNP-AC. Assistant Clinical Professor. Pediatric critical care and pediatric rehabilitation

Linda Celia, DNP, RN-BC *(Drexel University)*. Assistant Clinical Professor. Adult medical-surgical nursing and telemetry.

Beth Chiatti, PhD, RN, CTN, CSN *(Widener University)*. Assistant Clinical Professor. Genetics, transcultural nursing, immigrant health, human rights and global health

Danielle Devine, PhD, RN *(Villanova University)*. Assistant Clinical Professor. Neurology, Critical Care.

Gloria Donnelly, PhD *(Bryn Mawr College) Dean Emerita*. Professor. Nursing education and a variety of mental health topics including assertiveness, stress and change.

Jane Donovan, PhD, RNC -MNN *(Widener University)*. Assistant Clinical Professor. Maternal-newborn and gynecological nursing, intellectual and development disabilities nursing, nursing administration, nursing education.

Theresa Fay-Hillier, DrPH, MSN, PMHCNS-BC *(Drexel University)*. Assistant Clinical Professor. Child, adolescent and family mental health nursing.

Maryann Godshall, PhD, RN, CCRN, CPN, CNE *(Duquesne University)*. Associate Clinical Professor. Pediatrics, critical care, nursing education, pediatric burn patients.

Maureen Gonzales, MSN, WHNP *(University of Pennsylvania)*. Assistant Clinical Professor. Women's health, high risk obstetrics.

Elizabeth Hammond-Ritschard, PhD, MSN, RN *(Indiana University of Pennsylvania)*. Assistant Clinical Professor. Cardiac nursing, adult medical-surgical nursing, leadership, and nursing education.

Shelly Hickey, MSN, BSN, RN *(Villanova University)*. Assistant Clinical Professor. Critical care, nursing education.

Dana C. Kemery, EdD, MSN, RN, CNE, CEN, CPEN *(Drexel University)*. Assistant Clinical Professor. Emergency nursing (adult and pediatric), nursing education.

Tasha Martin-Peters, MSN, RN *(Duke University)*. Assistant Clinical Professor. Pediatric critical care, pediatric cardiac care.

Kristen McLaughlin, PhD, MSN, RN, CPNP-PC *(Widener University)*. Assistant Clinical Professor. Pediatric nurse practitioner.

Maura Nitka, MSN, RN, CPN *(Drexel University)*. Assistant Clinical Professor. Pediatric nursing.

Jennifer Olszewski, EdD, MSN, CRNP, ANP-BC *(Drexel University) Chair of the BSN Nursing Accelerated Career Entry Program*. Assistant Clinical Professor. Adult-gerontology nurse practitioner, dementia care.

Alis Kotler Panzera, DNP, WHNP-BC, RN *(Drexel University)*. Assistant Clinical Professor. Board certified women's health nurse practitioner, reproductive health and female urology.

Hailey Park, DNP, MSN, AGACNP-BC *(Vanderbilt University)*. Assistant Clinical Professor. Acute critical care and nursing education.n

Genevieve Porrecca, MSN, RN, PCCN *(Holy Family University)*. Assistant Clinical Professor. Critical care

Meaghan Shattuck, MSN, RN, OCN *(Holy Family University)*. Assistant Clinical Professor. Oncology certified, medical/surgical nursing and education.

Tina Solomon, MSN, RN FNP-C *(West Chester University)*. Assistant Clinical Professor. Adult medical-surgical nursing and nursing education.

Helen Teng, PhD, RN *(University of Pennsylvania)*. Assistant Clinical Professor. Community health, immigrant health.

Ann Thiel-Barrett, DNP, RN, FNP-BC, CNE *(Chatham University)*. Assistant Clinical Professor. Family health nursing.

Elizabeth Ward, MSN, RN, FNO-BC, CORLN *(Drexel University)*. Assistant Clinical Professor. Family nurse practitioner, nursing leadership and education, pediatric otolaryngology.

Denise Way, DNP, MSN, RN *(Wilmington University)*. Assistant Clinical Professor. Osteoporosis prevention throughout the lifespan.

Joyce Welliver, MSN, CRNP, CAC, RN *(Drexel University)*. Assistant Clinical Professor. Psychiatric/mental health nursing, adult health

Mary Yost, PhD, RN *(Widener University) Chair of the BSN Co-Op Program*. Associate Clinical Professor. Trauma/Critical Car and Emergency Nursing.

Mary Ann Zimmer, PhD, RN, MSN, CPN *(Villanova University)*. Assistant Clinical Professor. Pediatrics, adult medical-surgical nursing, nursing education.

Nutrition and Foods BS

Major: Nutrition and Foods
Degree Awarded: Bachelor of Science (BS)
Calendar Type: Quarter
Minimum Required Credits: 182.0
Co-op Options: One Co-op (Four years); No Co-op (Four years)
Classification of Instructional Programs (CIP) code: 51.3102
Standard Occupational Classification (SOC) code: 29-1031

NOTE: This program is no longer accepting applications as of the 2023-2024 academic year.

About the Program

The Nutrition and Foods curriculum emphasizes the relationship between food, food choices, nutrient metabolism and preventive nutrition to meet the health and nutrient needs of individuals and groups. The BS in Nutrition and Foods requires four years of study and the completion of at least 182.0 credits. The curriculum is designed to provide a sound basis for careers in many areas of food, nutrition and dietetics, including wellness and disease prevention, the food industry, food service and clinical practice. The study of the biochemical nature of nutrients and foods, their interaction with the environment and their eventual metabolic fate is also a strong career path for more research-minded students or those going on to graduate school in the health professions.

Paths to Becoming a Registered Dietitian/Registered Dietitian Nutritionist

The (https://www.cdrnet.org/)Academy of Nutrition and Dietetics (https://www.eatright.org/) is the nation's largest organization of food and nutrition professionals, most of whom are RD/RDNs (Note that the "RD" and "RDN" credentials are the same credential). Students entering higher education in 2023 to become an RD/RDN can follow one of the following pathways:

Didactic Program in Dietetics, Master's Degree and Accredited Dietetic Internship:

- Completion of a Didactic Program in Dietetics (DPD) at either the bachelor's or master's degree level. The DPD includes coursework approved by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). Coursework typically includes nutrition and food sciences, chemistry, biochemistry, physiology, microbiology, community nutrition, nutrition counseling, basic and quantity food preparation, food service systems management and medical nutrition therapy. Drexel currently offers a DPD program at the master's degree level.
- Beginning in January 2024, the Commission on Dietetic Registration will require the completion of a master's degree to sit for the RDN exam. If the student has completed the DPD at the bachelor's degree level, the master's degree may be in any discipline.

- Completion of an accredited, supervised practice program, also called a dietetic internship (DI), at healthcare facilities, community agencies and food service operations. The internship must provide a minimum of 1,000 hours of hands-on training.
- Pass a national examination administered by the Commission on Dietetic Registration

OR

Future Education Model Graduate Program:

- Bachelor's degree in any discipline including coursework in the following areas as prerequisites to a graduate degree in nutrition: nutrition, chemistry, biochemistry, physiology, biology, psychology and statistics
- Graduate-level program that integrates a minimum of 1,000 hours of experiential learning with coursework in the classroom including nutrition and food sciences, community nutrition, nutrition through the life cycle, food service systems management and medical nutrition therapy
- Pass a national examination administered by the Commission on Dietetic Registration

Academy of Nutrition and Dietetics
120 South Riverside Plaza
Suite 2000
Chicago, IL 60606
800-877-1600 x5400
www.eatright.org (http://www.eatright.org)

Additional Information

For more information, visit the College's Nutrition Sciences (https://drexel.edu/cnhp/academics/undergraduate/bs-nutrition-and-foods/) webpage.

Admission/Graduation Requirements

Admission Requirements

Drexel takes into consideration a number of criteria when determining admission including the applicant's application, transcripts, courses in progress, two letters of recommendation, standardized test scores, essay and special interests (list of extracurricular activities, employment, etc.). Applicants to the Nutrition and Foods program must have completed three years of high school mathematics (algebra I and II, geometry and trigonometry) and two years of laboratory science (biology, chemistry or physics). Applicants should have a strong interest in and aptitude for the basic sciences that are required in the program.

To be considered as a transfer student, candidates should have completed a minimum of 24.0 college credits. Drexel operates on a rolling admission basis, which means that students will be notified about the admission decision as soon as possible after their files are complete.

Visit the Admissions (http://drexel.edu/undergrad/academics/majors/) website for more information and to apply online.

Graduation Requirements

To receive a BS in Nutrition and Foods, students in the program must complete a plan of study of all required courses and enough elective courses to total at least 182.0 credits. An overall GPA of 2.0 or higher for all coursework undertaken at Drexel University must be earned to receive a BS.

Degree Requirements

Communications and English		
COM 230	Techniques of Speaking	3.0
COM 345	Intercultural Communication	3.0
or COM 310	Technical Communication	
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Physical and Biological Sciences		
BIO 122	Cells and Genetics	4.5
CHEM 101	General Chemistry I	3.5
CHEM 103	General Chemistry III	4.5
CHEM 108	Health Chemistry I	3.0
HSCI 101	Anatomy and Physiology I	5.0
HSCI 102	Anatomy and Physiology II	5.0
HSCI 103	Anatomy and Physiology III	5.0

Humanities and Social Sciences		
ANTH 101	Introduction to Cultural Diversity	3.0
or SOC 101	Introduction to Sociology	
PSY 101	General Psychology I	3.0
Management and Computing		
HRM 455	Hospitality Human Resources Management	3.0
ORGB 300 [WI]	Organizational Behavior	4.0
Foods, Food Safety, and Food Production		
CULA 115	Culinary Fundamentals	3.0
CULA 405 [WI]	Culture and Gastronomy I	3.0
CULA 425	The Kitchen Garden	3.0
FDSC 154	Science of Food and Cooking	4.0
FDSC 270	Microbial Food Safety and Sanitation	4.0
FDSC 350	Experimental Foods: Product Development	3.0
HRM 120	Principles of Food-Service Management	3.0
HRM 215	Commercial Food Production	4.0
Mathematics and Statistics		
MATH 101	Introduction to Analysis I	4.0
HSCI 345	Statistics for Health Sciences	4.5
Nutrition and Food Sciences		
NFS 100	Nutrition, Foods, and Health	2.0
NFS 101	Introduction to Nutrition & Food	1.0
NFS 202	Nutrition: Wellness and Weight Management	3.0
NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0
NFS 230	Intermediate Nutrition	4.0
NFS 265	Professional Issues in Nutrition and Foods	3.0
NFS 315	Nutrition in Chronic Disease	4.0
NFS 325	Nutrition & Exercise Physiology	3.0
NFS 345	Foods and Nutrition of World Cultures	3.0
NFS 391	Community Nutrition	4.0
NFS 415	Advanced Nutrition I: Macronutrition	4.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
NFS 494	Senior Project I	2.0
NFS 495	Senior Project II	2.0
NFS 496	Senior Project III	2.0
Additional Requirements		
UNIV NH101	The Drexel Experience	1.0
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development *	1.0
Free Electives *		**40.0**
Total Credits		**182.0**

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Students not participating in co-op will not take COOP 101; 1 credit of Free Elective will be added in place of COOP 101

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

4 year, no co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CHEM 108	3.0	CHEM 101	3.5	BIO 122	4.5	VACATION	
ENGL 101 or 111	3.0	ENGL 102 or 112	3.0	CHEM 103	4.5		
PSY 101	3.0	CULA 115	3.0	ENGL 103 or 113	3.0		
NFS 100	2.0	MATH 101	4.0	FDSC 154	4.0		
NFS 101	1.0	CIVC 101	1.0				
UNIV NH101	1.0						
	13		**14.5**		**16**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HRM 120	3.0	HSCI 102	5.0	HSCI 103	5.0	VACATION	
HSCI 101	5.0	FDSC 270	4.0	NFS 203	4.0		
NFS 230	4.0	NFS 202	3.0	COM 345 or 310	3.0		
NFS 265	3.0	Free elective	4.0	Free elective	3.0		
	15		**16**		**15**		**0**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ANTH 101 or SOC 101	3.0	FDSC 350	3.0	COM 230	3.0	VACATION	
HRM 215	4.0	NFS 315	4.0	HSCI 345	4.5		
NFS 391	4.0	Free electives	7.0	ORGB 300	4.0		
Free electives	3.0			Free electives	7.0		
	14		**14**		**18.5**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits
CULA 405	3.0	NFS 325	3.0	CULA 425	3.0
NFS 415	4.0	NFS 416	4.0	HRM 455	3.0
NFS 494	2.0	NFS 495	2.0	NFS 345	3.0
Free electives	6.0	Free electives	7.0	NFS 496	2.0
				Free electives	4.0
	15		**16**		**15**

Total Credits 182

*

Students not participating in co-op will not take COOP 101; 1 credit of Free Elective will be added in place of COOP 101.

4 year, one co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CHEM 108	3.0	CHEM 101	3.5	BIO 122	4.5	VACATION	
ENGL 101 or 111	3.0	CIVC 101	1.0	CHEM 103	4.5		
PSY 101	3.0	CULA 115	3.0	ENGL 103 or 113	3.0		
NFS 100	2.0	ENGL 102 or 112	3.0	FDSC 154	4.0		
NFS 101	1.0	MATH 101	4.0				
UNIV NH101	1.0						
	13		**14.5**		**16**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HRM 120	3.0	FDSC 270	4.0	COM 345 or 310	3.0	ANTH 101 or SOC 101	3.0
HSCI 101	5.0	HSCI 102	5.0	COOP 101*	1.0	COM 230	3.0
NFS 230	4.0	NFS 202	3.0	HSCI 103	5.0	HSCI 345	4.5
NFS 265	3.0	Free Elective	3.0	NFS 203	4.0	Free Electives	6.0
				Free Elective	3.0		
	15		**15**		**16**		**16.5**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HRM 215	4.0	FDSC 350	3.0	COOP EXPERIENCE		COOP EXPERIENCE	
NFS 391	4.0	NFS 315	4.0				

NFS 415	4.0	NFS 416	4.0		
Free Elective	3.0	Free Elective	6.0		
	15		**17**	**0**	**0**
Fourth Year					
Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**
CULA 405	3.0	NFS 325	3.0	CULA 425	3.0
NFS 494	2.0	NFS 495	2.0	HRM 455	3.0
Free Elective	9.0	ORGB 300	4.0	NFS 345	3.0
		Free Elective	7.0	NFS 496	2.0
				Free Elective	3.0
	14		**16**		**14**

Total Credits 182

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Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

Career Opportunities

Graduates of the BS in Nutrition and Foods are prepared to work in a variety of organizations and industries or to go on to further their education and training. Most pursue a path to become a Registered Dietitian/Registered Dietitian Nutritionist through the Drexel Bridge to the MS in Nutrition and Dietetics or the MS in Human Nutrition Plus Partner Dietetic Internship. Registered Dietitians/Registered Dietitian Nutritionists are credentialed to work in may different areas including the following:

- *Clinical Dietitians* are specialists in medical nutrition therapy in hospitals, outpatient clinics and private practices. They assess patient nutrition, develop dietary plans, provide patient counseling and monitor patient progress.
- *Community Dietitians* work in public health agencies, health and fitness clubs, for the Women, Infants and Children Special Supplemental Nutrition Program (WIC), Supplemental Nutrition Assistance Program Education (SNAP-Ed) and other non-profit organizations with a focus on nutrition. They counsel people on food choices and direct programs in nutrition awareness and disease prevention.
- *Sports Dietitians* work with professional sports teams and Olympic and/or university and college teams. They provide team and individual nutrition counseling, establish fueling stations, work with the food service industry during travel, etc.
- *Management Dietitians* specialize in clinical management or food service systems. They work in hospitals, nursing homes, school food service, cafeterias, restaurants, the airline industry, etc. They manage personnel, plan and conduct employee training programs, design food systems and plan budgets.
- *Business Dietitians* work in the food industry in product development and marketing, public relations, food styling and menu design.
- *Consultant Dietitians* are independent business people who work as consultants to sports teams, nursing homes, corporations, etc.

With the exception of clinical settings, graduates of the BS in Nutrition and Foods are qualified to work in most of the same settings as described above, as well as in other roles in health and fitness.

Facilities

The Center for Nutrition & Performance, located in the Daskalakis Athletic Center, provides a variety of nutrition services to the Drexel community, including workshops, lectures, support for athletic teams and individual counseling. The Center for Nutrition & Performance also works with some professional teams as well as internationally.

Nutrition and Foods Faculty

Nyree Dardarian, EdD, MS, RD, LDN, CSSD, FAND *(East Tennessee State University) Director, Center for Nutrition & Performance*. Clinical Assistant Professor. Energy expenditure; sports nutrition.

Mary Pat DeHaven, MS, RD, LDN *(Drexel University) Director, Nutrition & Dietetics*. Assistant Clinical Professor. Clinical nutrition.

Beth L. Leonberg, DHSc, MS, MA, RDN, CSP, FAND, LDN *(Drexel University) Director, Didactic Program in Dietetics* . Associate Clinical Professor. Pediatric nutrition.

Brandy-Joe Milliron, PhD *(Arizona State University)*. Associate Professor. The development and evaluation of modifications in the natural environment to promote healthier living; farm to table school initiatives

Jennifer Nasser, PhD, RD, FTOS *(Rutgers University)*. Associate Professor. Dopamine-mediated mechanisms of food intake regulation in humans and its impact on metabolic homeostasis, especially as it applies to obesity, eating disorders and aging. Implementation of methods to maximize nutrient density of food provided in community food services.

Deeptha Sukumar, PhD *(Rutgers University)*. Associate Professor. Vitamin D and magnesium and bone mineral density; obesity and bone mineral density.

Emeritus Faculty

Donna H. Mueller, PhD *(Temple University)*. Associate Professor Emeritus. Clinical nutrition; pediatric nutrition; nutrition in pulmonary diseases, especially cystic fibrosis; nutrition in developmental delay; dental nutrition; dietetic education and professional development.

Jennifer Quinlan, PhD *(North Carolina State University)*. Professor Emeritus. Food microbiology; microbiological quality and safety of produce, dairy and meat products in markets in high vs. low socioeconomics areas, Bacillus and Clostridium spores in food processing.

Health Sciences BS / Health Administration MHA

Major: Health Sciences and Health Administration
Degrees Awarded: Bachelor of Science (BS) and Master of Health Administration (MHA)
Calendar Type: Quarter
Minimum Required Credits: 228.0
Co-op Options: One Co-op
BS Classification of Instructional Programs (CIP) code: 51.1199
BS Standard Occupational Classification (SOC) code: 11-9111
MHAD Classification of Instructional Programs (CIP) code: 51.0701
MHAD Standard Occupational Classification (SOC) code: 11-9111

About the Program

Drexel's undergraduate Health Sciences program and graduate Healthcare Administration program have partnered to offer a BS/MHA 4+1 accelerated option for students in the BS in Health Sciences. While most health sciences students are focused on clinical health professions, the program opens the option for students interested in a career in health administration. The BS/MHA 4+1 program is a linked academic program that enables students to complete their Bachelor of Science in Health Science and Masters in Healthcare Administration in 5 years. Eligible students in the Health Science program will begin taking the Master's in Health Administration courses in their third year and complete the Master's degree in the summer term of their fifth year.

Additional Information

For more information about this program, please contact CNHPAdvising@drexel.edu.

Admission Requirements

Students in the Health Science program must meet the eligibility requirements for the MHA program prior to submitting their application. The MHA requires a 3.0 cumulative GPA.

Degree Requirements

General Requirements		
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development *	1.0
UNIV NH101	The Drexel Experience	1.0
English Sequence		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Biology Sequence		
BIO 131 & BIO 134	Cells and Biomolecules and Cells and Biomolecules Lab	5.0
BIO 132 & BIO 135	Genetics and Evolution and Genetics and Evolution Lab	5.0
BIO 133 & BIO 136	Physiology and Ecology and Anatomy and Ecology Lab	5.0
BIO 226	Microbiology for Health Professionals	5.0
Chemistry Sequence		
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	4.5
Mathematics Sequence		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
Communications		
COM 320 [WI]	Science Writing	3.0
Health Systems		
ECON 240	Economics of Health Care Systems	4.0
HSAD 210	Health-Care Ethics I	3.0
Complete one of the following courses:		3.0

HSAD 309	Advanced Health-Care Ethics	
HSAD 310	Introduction to Health-Systems Administration	
HSAD 345	Ethics in Health Care Management	
Psychology		
PSY 101	General Psychology I	3.0
Two Psychology (PSY 100-499) and/or Behavioral Health Counseling (BACS 100-499) courses (minimum 6.0 credits)		6.0
Sociology		
SOC 101	Introduction to Sociology	3.0
Two Sociology (SOC 100-499) courses (minimum 8.0 credits)		8.0
Humanities**		**9.0**
Public Health		
PBHL 101	Public Health 101	3.0
One Public Health (PBHL 300-499 course (minimum 3.0 credits)		3.0
Anatomy and Physiology Courses		
HSCI 206	Human Anatomy and Physiology for Health Sciences I	5.0
HSCI 207	Human Anatomy and Physiology for Health Sciences II	5.0
HSCI 208	Human Anatomy and Physiology for Health Sciences III	5.0
Research Courses		
HSCI 310	Introduction to Research Methods	4.0
HSCI 315	Current Issues in Health Sciences	4.0
or HSCI 450	Undergraduate Research Experience	
Statistics and Assessment		
HSCI 201	Health Assessment through the Lifespan	4.0
HSCI 345	Statistics for Health Sciences	4.5
Health Sciences Electives***		**30.0**
Free electives		**21.0**
MHA Core Courses		
HSAD 500	Historical Influences on the US Healthcare System	4.0
HSAD 501	Managerial Epidemiology	3.0
HSAD 505	Ethical and Legal Issues in Healthcare Management and Policy	4.0
HSAD 515	Practice issues in Healthcare Management	4.0
HSAD 522	Applied Management Project	4.0
HSAD 525	National Health Expenditures	4.0
HSAD 530	Politics and Policy of Healthcare Resources	4.0
HSAD 540	Resources, Recruitment and Retention in Healthcare	4.0
HSAD 550	Strategic Planning for Healthcare Administration	4.0
IPS 564	The Business of Healthcare	3.0
MHA Electives (Choice of 2)		**7.0**
HSAD 527	Intro to Long Term Care & Post Acute Care Admin	
HSAD 555	Aging & Disability Policy in the US	
HSAD 560	Advanced Healthcare Marketing	
HSAD 561	Risk Management	
HSAD 562	Group Dynamics & Leadership in Health Care Management	
HSAD 565	Global Health and Management Issues	
HSAD 566	Evaluation and Assessment of Healthcare Systems	
IPS 562	Comparative Health Systems	
Total Credits		**228.0**

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Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter. spring/summer, summer only) based on their co-op program. COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term.

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Three Humanities (courses at the 100-499 level in ANTH, HIST, HUM, PHIL) or language electives (courses at 100-499 level in ARBC, CHIN, FREN, GER, HBRW, JAPN, KOR, SPAN) for a minimum of 9.0 credits.

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Health Sciences electives include HSCI or NFS courses at the 100-499 level. Up to two science courses (BIO 200-499, CHEM 200-499, PHYS 100-499) may be used as Health Sciences electives with advisor permission. All 100-level freshmen course requirements in BIO, CHEM, ENGL, and MATH must be completed by the time a student reaches 135.0 credits.

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

Fall/Winter Co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 131 & BIO 134	5.0	BIO 132 & BIO 135	5.0	BIO 133 & BIO 136	5.0	VACATION	
CHEM 101	3.5	CHEM 102	4.5	CHEM 103	4.5		
ENGL 101 or 111	3.0	CIVC 101	1.0	ENGL 103 or 113	3.0		
UNIV NH101	1.0	ENGL 102 or 112	3.0	MATH 102	4.0		
		MATH 101	4.0				
	12.5		**17.5**		**16.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 226	5.0	COOP 101*	1.0	COM 320	3.0	SOC 101	3.0
HSCI 206	5.0	HSCI 207	5.0	HSAD 210	3.0	(UG) Health Sciences Elective**	3.0
HSCI 310	4.0	HSCI 345	4.5	HSCI 208	5.0	(UG) PSY Elective	3.0
(UG) Free Elective	3.0	PSY 101	3.0	(UG) Health Sciences Electives**	4.0	(UG) Free Elective	6.0
		(UG) Free Elective	3.0				
	17		**16.5**		**15**		**15**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
COOP Experience		COOP Experience		PBHL 101	3.0	HSCI 201	4.0
				HSCI 315 or 450	4.0	(UG) Health Sciences Elective*	4.0
				HSAD 309, 310, or 345	3.0	(UG) Sociology Elective	4.0
				(UG) Health Sciences Elective**	3.0	(UG) Free Elective	3.0
				HSAD 505	4.0	HSAD 500	4.0
	0		**0**		**17**		**19**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ECON 240	4.0	(UG) Health Sciences Electives**	3.0	(UG) Health Sciences Electives**	6.0	STUDENT CONVERTS TO GRADUATE STATUS	
(UG) Health Sciences Electives**	7.0	(UG) Humanities	6.0	(UG) Humanities	3.0		
(UG) Free Elective	3.0	(UG) Sociology Elective	4.0	(UG) PBHL	3.0		
HSAD 501	3.0	(UG) Free Elective	3.0	(UG) PSY Elective	3.0		
				HSAD 550	4.0		
	17		**16**		**19**		**0**

Fifth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSAD 525	4.0	IPS 564	3.0	HSAD 515	4.0	HSAD 522	4.0

HSAD 530	4.0	(GR) MHA Elective	3.0 HSAD 540	4.0 (GR) MHA Elective	4.0
	8		**6**	**8**	**8**

Total Credits 228

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COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.
COOP cycles may vary. Students are assigned a co-op cycle (Fall/Winter, Spring/Winter, Summer-Only) based on their co-op program.

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Health Sciences electives include HSCI or NFS courses at the 100-499 level. Up to two science courses (BIO 200-499, CHEM 200-499, PHYS 100-499) may be used as Health Sciences electives with advisor permission. All 100-level freshmen course requirements in BIO, CHEM, ENGL, and MATH must be completed by the time a student reaches 135.0 credits.

Spring/Summer Co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 131 & BIO 134	5.0	BIO 132 & BIO 135	5.0	BIO 133 & BIO 136	5.0	VACATION	
CHEM 101	3.5	CHEM 102	4.5	CHEM 103	4.5		
ENGL 101 or 111	3.0	CIVC 101	1.0	ENGL 103 or 113	3.0		
UNIV NH101	1.0	ENGL 102 or 112	3.0	MATH 102	4.0		
		MATH 101	4.0				
	12.5		**17.5**		**16.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 226	5.0	COOP 101*	1.0	COM 320	3.0	SOC 101	3.0
HSCI 206	5.0	HSCI 207	5.0	HSAD 210	3.0	(UG) Health Sciences Elective**	4.0
HSCI 310	4.0	HSCI 345	4.5	HSCI 208	5.0	(UG) PSY Elective	3.0
(UG) Free Elective	3.0	PSY 101	3.0	(UG) Health Sciences Electives**	4.0	(UG) Free Elective	6.0
		(UG) Free Elective	3.0				
	17		**16.5**		**15**		**16**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSCI 315 or 450	4.0	HSCI 201	4.0	COOP EXPERIENCE*		COOP EXPERIENCE*	
PBHL 101	3.0	(UG) Health Sciences Elective**	4.0				
HSAD 309, 310, or 345	3.0	(UG) Sociology Elective	4.0				
(UG) Health Sciences Elective**	3.0	(UG) Free Elective	3.0				
HSAD 505	4.0	HSAD 500	4.0				
	17		**19**		**0**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ECON 240	4.0	(UG) Health Sciences Elective**	3.0	(UG) Health Sciences Electives**	6.0	STUDENT CONVERTS TO GRADUATE STATUS	
(UG) Health Sciences Electives**	6.0	(UG) Humanities	6.0	(UG) Humanities	3.0		
(UG) Free Elective	3.0	(UG) Sociology Elective	4.0	(UG) PBHL Elective	3.0		
HSAD 501	3.0	(UG) Free Elective	3.0	(UG) PSY Elective	3.0		
				HSAD 550	4.0		
	16		**16**		**19**		**0**

Fifth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSAD 525	4.0	IPS 564	3.0	HSAD 515	4.0	HSAD 522	4.0
HSAD 530	4.0	(GR) MHA Elective	3.0	HSAD 540	4.0	(GR) MHA Elective	4.0
	8		**6**		**8**		**8**

Total Credits 228

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COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to replace COOP 101 with COOP 001.
Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program.

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Health Sciences electives include HSCI or NFS courses at the 100-499 level. Up to two science courses (BIO 200-499, CHEM 200-499, PHYS 100-499) may be used as Health Sciences electives with advisor permission. All 100-level freshmen course requirements in BIO, CHEM, ENGL, and MATH must be completed by the time a student reaches 135.0 credits.

Health Sciences BS and Physical Therapy DPT Bridge Program

Major: Health Sciences and Physical Therapy
Degree Awarded: Bachelor of Science (BS) and Doctor of Physical Therapy (DPT)
Calendar Type: Quarter
Minimum Required Credits: 271.0
Co-op Options: One Co-op
BS Classification of Instructional Programs (CIP) code: 51.1199
BS Standard Occupational Classification (SOC) code: 11-9111
DPT Classification of Instructional Programs (CIP) code: 51.2308
DPT Standard Occupational Classification (SOC) code: 29-1123

About the Program

Drexel's undergraduate Health Sciences program and graduate Doctor of Physical Therapy (DPT) program have partnered to offer a BS/DPT Bridge program option available to high-achieving students enrolled in the Health Sciences program. The BS/DPT Bridge program is a linked academic track that enables students to complete their Bachelor of Science and Doctor of Physical Therapy degrees in six years.

Students pursue a BS degree in Health Sciences during their first three years of study and a DPT degree during their final two and a half years of study. The bachelor's degree in Health Sciences is awarded following completion of year four (first year of graduate study), and the doctoral degree is awarded following completion of the Physical Therapy program.

Additional Information

For more information, please visit the Health Sciences Department (https://drexel.edu/cnhp/academics/departments/health-sciences/).

Degree Requirements

General Requirements		
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development *	1.0
UNIV NH101	The Drexel Experience	1.0
English Sequence		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Biology Sequence		
BIO 131 & BIO 134	Cells and Biomolecules and Cells and Biomolecules Lab	5.0
BIO 132 & BIO 135	Genetics and Evolution and Genetics and Evolution Lab	5.0
BIO 133 & BIO 136	Physiology and Ecology and Anatomy and Ecology Lab	5.0
BIO 226	Microbiology for Health Professionals	5.0
Chemistry Sequence		
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	4.5
Mathematics Sequence		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0

Physics for Life Sciences		
PHYS 152	Introductory Physics I	4.0
PHYS 153	Introductory Physics II	4.0
Communications		
COM 320 [WI]	Science Writing	3.0
Health Systems		
HSAD 210	Health-Care Ethics I	3.0
Complete one of the following courses:		3.0
HSAD 309	Advanced Health-Care Ethics	
HSAD 310	Introduction to Health-Systems Administration	
HSAD 345	Ethics in Health Care Management	
Psychology		
PSY 101	General Psychology I	3.0
One Psychology (PSY 100-499) and/or Behavioral Health Counseling (BACS 100-499) course (minimum 3.0 credits)		3.0
Sociology		
SOC 101	Introduction to Sociology	3.0
One Sociology (SOC 100-499) course (minimum 3.0 credits)		4.0
Public Health		
PBHL 101	Public Health 101	3.0
One Public Health (PBHL) course (minimum 3.0 credits)		3.0
Anatomy & Physiology Courses		
HSCI 206	Human Anatomy and Physiology for Health Sciences I	5.0
HSCI 207	Human Anatomy and Physiology for Health Sciences II	5.0
HSCI 208	Human Anatomy and Physiology for Health Sciences III	5.0
Research Courses		
HSCI 310	Introduction to Research Methods	4.0
HSCI 315	Current Issues in Health Sciences	4.0
or HSCI 450	Undergraduate Research Experience	
Statistics and Assessment		
HSCI 201	Health Assessment through the Lifespan	4.0
HSCI 345	Statistics for Health Sciences	4.5
Free Electives		**3.0**
Health Sciences Electives **		**20.0**
Physical Therapy DPT Requirements ***		
PTRS 507	Neuroscience I	3.0
PTRS 508	Neuroscience II	2.0
PTRS 530	Kinesiology I	4.0
PTRS 531	Kinesiology II	3.0
PTRS 532	Human Gross Anatomy I	4.0
PTRS 533	Human Gross Anatomy II	4.0
PTRS 534	Physical Therapy Exam & Intervention I	3.0
PTRS 535	Physical Therapy Exam & Intervention II	3.0
PTRS 600	Clinical Reasoning	4.0
PTRS 541	Topics in Pathophysiology I	3.0
PTRS 607	Topics in Pathophysiology II	3.0
PTRS 610	Issues in Pharmacotherapy	3.0
PTRS 613	Integrated Clinical Experience I	0.5
PTRS 614	Integrated Clinical Experience II	0.5
PTRS 615	Integrated Clinical Experience III	0.5
PTRS 616	Integrated Clinical Experience IV	0.5
PTRS 620	Orthopedic Physical Therapy: Upper Extremity	4.0
PTRS 621	Orthopedic Physical Therapy: Lower Extremity	4.0
PTRS 622	Orthopedic Physical Therapy: Spine	4.0
PTRS 623	Physical Agents	3.0
PTRS 624	Functional Mobility	3.0
PTRS 627	Cardiopulmonary Physical Therapy I	4.0
PTRS 630	Cardiopulmonary Physical Therapy II	3.0
PTRS 639	Motor Learning	2.0
PTRS 641	Neurological Exam and Intervention I	4.0
PTRS 642	Neurological Exam and Intervention II	5.0
PTRS 644	Integumentary Physical Therapy	1.5
PTRS 648	Prosthetics and Orthotics	3.0

PTRS 649	Culture, Ethics and Interprofessionalism in Healthcare	2.5
PTRS 654	Topics in Health Policy & Services	3.0
PTRS 655	Health Administration	2.5
PTRS 656	Motor Control and Rehabilitation	2.0
PTRS 663	Pediatric Physical Therapy I	3.5
PTRS 665	Pediatric Physical Therapy II	3.5
PTRS 680	Geriatric Physical Therapy	3.0
PTRS 733	Advanced Clinical Reasoning	2.0
PTRS 751	Evidence-Based Practice	3.0
PTRS 752	Evidence-Based Practice II	2.0
PTRS 791	Clinical Experience I	4.5
PTRS 792	Terminal Clinical Experience II	4.5
PTRS 793	Terminal Clinical Experience III	4.5
Electives (600 and 700 level PTRS)		6.0
Total Credits		**271.0**

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Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

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Health Sciences electives include HSCI or NFS courses at the 100-499 level. Up to two science courses (BIO 200-499, CHEM 200-499, PHYS 100-499) may be used as Health Sciences electives with advisor permission. All 100-Level freshman course requirements in BIO, CHEM, ENGL, and MATH must be completed by the time a student reaches 135.0 credits.

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Students receive their BS degree in Health Sciences after successful completion of the Fall, Winter, and Spring term courses in the first year of the DPT curriculum and fulfilling the undergraduate degree requirements.

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

Fall-Winter Co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 131 & BIO 134	5.0	BIO 132 & BIO 135	5.0	BIO 133 & BIO 136	5.0	VACATION	
CHEM 101	3.5	CHEM 102	4.5	CHEM 103	4.5		
ENGL 101 or 111	3.0	CIVC 101	1.0	ENGL 103 or 113	3.0		
UNIV NH101	1.0	ENGL 102 or 112	3.0	MATH 102	4.0		
		MATH 101	4.0				
	12.5		**17.5**		**16.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 226	5.0	COOP 101*	1.0	COM 320	3.0	HSAD 210	3.0
HSCI 206	5.0	HSCI 207	5.0	HSCI 208	5.0	PSY 101	3.0
HSCI 310	4.0	HSCI 345	4.5	HSCI 315 or 450	4.0	Health Sciences Elective	4.0

Health Science Elective	3.0	Health Science Elective	4.0	SOC 101	3.0	Public Health Elective	3.0
		Free Elective	3.0			Sociology Elective	4.0
	17		**17.5**		**15**		**17**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
COOP EXPERIENCE		COOP EXPERIENCE		PBHL 101	3.0	HSCI 201	4.0
				PHYS 152	4.0	PHYS 153	4.0
				One of the following:	3.0	Health Sciences Elective	4.0
				HSAD 309		Psychology Elective	3.0
				HSAD 310			
				HSAD 345			
				Health Sciences Electives	5.0		
	0		**0**		**15**		**15**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
PTRS 530	4.0	PTRS 531	3.0	PTRS 507	3.0	PTRS 508	2.0
PTRS 532	4.0	PTRS 533	4.0	PTRS 615	0.5	PTRS 616	0.5
PTRS 534	3.0	PTRS 535	3.0	PTRS 620	4.0	PTRS 621	4.0
PTRS 600	4.0	PTRS 541	3.0	PTRS 623	3.0	PTRS 627	4.0
PTRS 613	0.5	PTRS 614	0.5	PTRS 639	2.0	PTRS 641	4.0
		PTRS 624	3.0	PTRS 751	3.0	PTRS 752	2.0
	15.5		**16.5**		**15.5**		**16.5**

Fifth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
PTRS 622	4.0	PTRS 791	4.5	PTRS 610	3.0	PTRS 607	3.0
PTRS 630	3.0			PTRS 642	5.0	PTRS 654	3.0
PTRS 644	1.5			PTRS 655	2.5	PTRS 665	3.5
PTRS 648	3.0			PTRS 663	3.5	PTRS 680	3.0
PTRS 649	2.5			Elective	3.0	PTRS 733	2.0
PTRS 656	2.0					Elective	3.0
	16		**4.5**		**17**		**17.5**

Sixth Year

Fall	Credits	Winter	Credits
PTRS 792	4.5	PTRS 793	4.5
	4.5		**4.5**

Total Credits 271

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Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

Spring-Summer Co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 131 & BIO 134	5.0	BIO 132 & BIO 135	5.0	BIO 133 & BIO 136	5.0	VACATION	
CHEM 101	3.5	CHEM 102	4.5	CHEM 103	4.5		
ENGL 101 or 111	3.0	CIVC 101	1.0	ENGL 103 or 113	3.0		
UNIV NH101	1.0	ENGL 102 or 112	3.0	MATH 102	4.0		
		MATH 101	4.0				
	12.5		**17.5**		**16.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 226	5.0	HSCI 207	5.0	COM 320	3.0	COOP 101*	1.0
HSCI 206	5.0	HSCI 345	4.5	HSCI 208	5.0	HSAD 210	3.0
HSCI 310	4.0	Health Science Elective	4.0	HSCI 315 or 450	4.0	PSY 101	3.0
Health Science Elective	3.0	Free Elective	3.0	SOC 101	3.0	Health Science Elective	4.0

						Public Health Elective	3.0
						Sociology Elective	4.0
	17		**16.5**		**15**		**18**

Third Year

Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
PBHL 101	3.0	HSCI 201	4.0	COOP EXPERIENCE		COOP EXPERIENCE	
PHYS 152	4.0	PHYS 153	4.0				
One of the following:	3.0	Health Science Elective	5.0				
HSAD 309		Psychology Elective	3.0				
HSAD 310							
HSAD 345							
Health Science Elective	4.0						
	14		**16**		**0**		**0**

Fourth Year

Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
PTRS 530	4.0	PTRS 531	3.0	PTRS 507	3.0	PTRS 508	2.0
PTRS 532	4.0	PTRS 533	4.0	PTRS 615	0.5	PTRS 616	0.5
PTRS 534	3.0	PTRS 535	3.0	PTRS 620	4.0	PTRS 621	4.0
PTRS 600	4.0	PTRS 541	3.0	PTRS 623	3.0	PTRS 627	4.0
PTRS 613	0.5	PTRS 614	0.5	PTRS 639	2.0	PTRS 641	4.0
		PTRS 624	3.0	PTRS 751	3.0	PTRS 752	2.0
	15.5		**16.5**		**15.5**		**16.5**

Fifth Year

Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
PTRS 622	4.0	PTRS 791	4.5	PTRS 610	3.0	PTRS 607	3.0
PTRS 630	3.0			PTRS 642	5.0	PTRS 654	3.0
PTRS 644	1.5			PTRS 655	2.5	PTRS 665	3.5
PTRS 648	3.0			PTRS 663	3.5	PTRS 680	3.0
PTRS 649	2.5			Elective	3.0	PTRS 733	2.0
PTRS 656	2.0					Elective	3.0
	16		**4.5**		**17**		**17.5**

Sixth Year

Fall	**Credits**	**Winter**	**Credits**
PTRS 792	4.5	PTRS 793	4.5
	4.5		**4.5**

Total Credits 271

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Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

Health Sciences BS and Physician Assistant MHS Bridge Program

Major: Health Sciences and Physician Assistant
Degrees Awarded: Bachelor of Science (BS) and Master of Health Science (MHS)
Calendar Type: Quarter
Minimum Required Credits: 261.5
Co-op Options: One Co-op
BS Classification of Instructional Programs (CIP) code: 51.1199
BS Standard Occupational Classification (SOC) code: 11-9111
MHS Classification of Instructional Programs (CIP) code: 51.0912
MHS Standard Occupational Classification (SOC) code: 29-1071

About the Program

Drexel's undergraduate Health Sciences program and graduate Physician Assistant (PA) program have partnered to offer a BS/MHS Bridge program option available to high-achieving students enrolled in the Health Sciences program. The BS/MHS PA Bridge program option is a linked academic

track that enables students to complete their bachelor's and master's degrees in Health Sciences, including sitting for the Physician Assistant National Certifying Exam (PANCE), in 5.25 years as opposed to the traditional 6.25 years.

Students pursue a Bachelor of Science degree in Health Sciences during their first three years of study and a Master of Health Science degree during the final 2.25 years of study. The bachelor's degree in Health Sciences is awarded following completion of year four (first year of graduate study), and the master's degree is awarded following completion of the Physician Assistant program.

Additional Information

For more information, please visit the Health Sciences Department (https://drexel.edu/cnhp/academics/departments/health-sciences/).

Degree Requirements

General Requirements		
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development *	1.0
UNIV NH101	The Drexel Experience	1.0
English Sequence		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Biology Sequence		
BIO 131 & BIO 134	Cells and Biomolecules and Cells and Biomolecules Lab	5.0
BIO 132 & BIO 135	Genetics and Evolution and Genetics and Evolution Lab	5.0
BIO 133 & BIO 136	Physiology and Ecology and Anatomy and Ecology Lab	5.0
BIO 226	Microbiology for Health Professionals	5.0
Chemistry Sequence		
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	4.5
Mathematics Sequence		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
Communication		
COM 320 [WI]	Science Writing	3.0
Health Systems		
HSCI 125	Medical Terminology	3.0
HSAD 210	Health-Care Ethics I	3.0
Select one of the following:		3.0
HSAD 309	Advanced Health-Care Ethics	
HSAD 310	Introduction to Health-Systems Administration	
HSAD 345	Ethics in Health Care Management	
Psychology		
PSY 101	General Psychology I	3.0
One Psychology (PSY) and/or Behavioral Health Counseling (BACS) course (minimum 3.0 credits)		3.0
Sociology		
SOC 101	Introduction to Sociology	3.0
One Sociology (SOC) course (minimum 3.0 credits)		4.0
Public Health		
PBHL 101	Public Health 101	3.0
One Public Health (PBHL) course (minimum 3.0 credits)		3.0
Anatomy & Physiology Courses		
HSCI 206	Human Anatomy and Physiology for Health Sciences I	5.0
HSCI 207	Human Anatomy and Physiology for Health Sciences II	5.0
HSCI 208	Human Anatomy and Physiology for Health Sciences III	5.0
Genetics		
HSCI 337	Genetics and Health	4.5
Research Courses		

HSCI 310	Introduction to Research Methods	4.0
HSCI 315	Current Issues in Health Sciences	4.0
or HSCI 450	Undergraduate Research Experience	
Statistics and Assessment		
HSCI 201	Health Assessment through the Lifespan	4.0
HSCI 345	Statistics for Health Sciences	4.5
Health Sciences Electives [**]		**19.0**
Free electives		**6.0**
Physician Assistant MHS Courses [***]		
PA 540	Clinical Anatomy	5.0
PA 542	Patient Communication	2.0
PA 543	Ethical Issues in Physician Assistant Practice	2.0
PA 544	Clinical Assessment	5.0
PA 545	Physician Assistant Practice	1.0
PA 546	Health Policy for Physician Assistant Practice	2.0
PA 547	Evidence Based Medicine for Physician Assistants	3.0
PA 548	Principles of Medical Science I	2.0
PA 549	Principles of Medical Science II	2.0
PA 550	Principles of Medical Science III	2.0
PA 551	Pharmacology and Therapeutics I	3.0
PA 552	Pharmacology and Therapeutics II	2.0
PA 553	Pharmacology and Therapeutics III	2.0
PA 554	Biopsychosocial Issues in Patient Care	5.0
PA 556	Clinical Medicine I	5.0
PA 557	Clinical Medicine II	5.0
PA 558	Topics in Clinical Practice	5.0
PA 561	Clinical Skills III	4.0
PA 562	Clinical Skills Lab I	1.0
PA 563	Clinical Reasoning Lab I	1.0
PA 564	Clinical Skills Lab II	1.0
PA 565	Clinical Reasoning Lab II	1.0
Competency Assessment [†]		**0.0-2.0**
PA 570	Clinical Assessment Competency	
PA 571	Competency for Clinical Training	
Clinical Year Rotation Courses [‡]		
PA 629	Internal Medicine Rotation	5.0
PA 630	Pediatrics Rotation	5.0
PA 631	Women's Health Rotation	5.0
PA 632	Behavioral Medicine Rotation	5.0
PA 633	Surgery Rotation	5.0
PA 634	Emergency Medicine Rotation	5.0
PA 639	Family Medicine Rotation	5.0
PA 644	Flex Core Clinical Rotation	5.0
Practicum		
PA 635	Primary Care Practicum I	10.0
Capstone Experiences		
PA 636	Graduate Project I	3.0
PA 638	Graduate Project II	3.0
Total Credits		**261.5-263.5**

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Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

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Health Sciences electives include HSCI or NFS courses at the 100-499 level. Up to two science courses (BIO 200-499, CHEM 200-499, PHYS 100-499) may be used as Health Sciences electives with advisor permission. All 100-Level freshman course requirements in BIO, CHEM, ENGL, and MATH must be completed by the time a student reaches 135.0 credits.

***

Students receive their BS degree in Health Sciences after successful completion of the Fall, Winter, and Spring term courses in the first year of the PA-MHS curriculum and fulfilling the undergraduate degree requirements.
Progression to graduate level PA program coursework is contingent upon successful completion of all accelerated track requirements and a successful admission interview

†

PA 570 and PA 571- These courses are provisional courses for students who need to assess skills upon return from a leave of absence.

‡

The sequencing of the eight clinical rotations will vary for individual students. Students must complete all eight rotations.

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

Fall-Winter Co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 131 & BIO 134	5.0	BIO 132 & BIO 135	5.0	BIO 133 & BIO 136	5.0	VACATION	
CHEM 101	3.5	CHEM 102	4.5	CHEM 103	4.5		
ENGL 101 or 111	3.0	CIVC 101	1.0	ENGL 103 or 113	3.0		
HSCI 125	3.0	ENGL 102 or 112	3.0	MATH 102	4.0		
UNIV NH101	1.0	MATH 101	4.0				
	15.5		**17.5**		**16.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 226	5.0	COOP 101*	1.0	COM 320	3.0	SOC 101	3.0
HSCI 206	5.0	HSCI 207	5.0	HSAD 210	3.0	Health Sciences elective	3.0
HSCI 310	4.0	HSCI 345	4.5	HSCI 208	5.0	Psychology elective	3.0
Health Sciences elective	3.0	PSY 101	3.0	HSCI 315 or 450	4.0	Sociology elective	4.0
		Health Sciences elective	4.0			Free elective	3.0
	17		**17.5**		**15**		**16**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
COOP EXPERIENCE		COOP EXPERIENCE		One of the following:	3.0	HSCI 201	4.0
				HSAD 309		Health Sciences elective	3.0
				HSAD 310		Public Health elective	3.0
				HSAD 345		Free elective	3.0
				HSCI 337	4.5		
				PBHL 101	3.0		
				Health Sciences electives	6.0		
	0		**0**		**16.5**		**13**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
PA 540	5.0	PA 547	3.0	PA 549	2.0	PA 546	2.0
PA 542	2.0	PA 548	2.0	PA 552	2.0	PA 550	2.0
PA 543	2.0	PA 551	3.0	PA 554	5.0	PA 553	2.0
PA 544	5.0	PA 556	5.0	PA 557	5.0	PA 558	5.0

PA 545	1.0	PA 562	1.0	PA 564	1.0	PA 561	4.0
		PA 563	1.0	PA 565	1.0		
	15		**15**		**16**		**15**

Fifth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
Clinical Phase[**]		Rotation III	5.0	Rotation V	5.0	PA 638	3.0
Rotation I	5.0	Rotation IV	5.0	Rotation VI	5.0	Rotation VII	5.0
Rotation II	5.0	PA 636	3.0			Rotation VIII	5.0
	10		**13**		**10**		**13**

Sixth Year

Fall	Credits
PA 635	10.0
	10

Total Credits 261.5

*

Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

Clinical Year Rotation Courses [**]

The sequencing of the eight clinical rotations will vary for individual students. Students must complete all eight rotations.	
PA 629	Internal Medicine Rotation
PA 630	Pediatrics Rotation
PA 631	Women's Health Rotation
PA 632	Behavioral Medicine Rotation
PA 633	Surgery Rotation
PA 634	Emergency Medicine Rotation
PA 639	Family Medicine Rotation
PA 644	Flex Core Clinical Rotation

Spring-Summer Co-op

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 131 & BIO 134	5.0	BIO 132 & BIO 135	5.0	BIO 133 & BIO 136	5.0	VACATION	
CHEM 101	3.5	CHEM 102	4.5	CHEM 103	4.5		
ENGL 101 or 111	3.0	CIVC 101	1.0	ENGL 103 or 113	3.0		
HSCI 125	3.0	ENGL 102 or 112	3.0	MATH 102	4.0		
UNIV NH101	1.0	MATH 101	4.0				
	15.5		**17.5**		**16.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
BIO 226	5.0	COOP 101[*]	1.0	COM 320	3.0	SOC 101	3.0
HSCI 206	5.0	HSCI 207	5.0	HSAD 210	3.0	Free Elective	3.0
HSCI 310	4.0	HSCI 345	4.5	HSCI 208	5.0	Health Sciences Elective	3.0
Health Sciences Elective	3.0	PSY 101	3.0	HSCI 315 or 450	4.0	Psychology Elective	3.0
		Health Sciences Elective	4.0			Sociology Elective	4.0
	17		**17.5**		**15**		**16**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSCI 337	4.5	HSCI 201	4.0	COOP EXPERIENCE		COOP EXPERIENCE	
PBHL 101	3.0	Free Elective	3.0				
One of the following:	3.0	Health Sciences Elective	3.0				
HSAD 309		Public Health Elective	3.0				
HSAD 310							
HSAD 345							

Health Sciences Elective	6.0			
	16.5	**13**	**0**	**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
PA 540	5.0	PA 547	3.0	PA 549	2.0	PA 546	2.0
PA 542	2.0	PA 548	2.0	PA 552	2.0	PA 550	2.0
PA 543	2.0	PA 551	3.0	PA 554	5.0	PA 553	2.0
PA 544	5.0	PA 556	5.0	PA 557	5.0	PA 558	5.0
PA 545	1.0	PA 562	1.0	PA 564	1.0	PA 561	4.0
		PA 563	1.0	PA 565	1.0		
	15		**15**		**16**		**15**

Fifth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
Clinical Phase**		PA 636	3.0	Rotation V	5.0	PA 638	3.0
Rotation I	5.0	Rotation III	5.0	Rotation VI	5.0	Rotation VII	5.0
Rotation II	5.0	Rotation IV	5.0			Rotation VIII	5.0
	10		**13**		**10**		**13**

Sixth Year

Fall	Credits
PA 635	10.0
	10

Total Credits 261.5

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Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

Clinical Year Rotation Courses **

The sequencing of the eight clinical rotations will vary for individual students. Students must complete all eight rotations.	
PA 629	Internal Medicine Rotation
PA 630	Pediatrics Rotation
PA 631	Women's Health Rotation
PA 632	Behavioral Medicine Rotation
PA 633	Surgery Rotation
PA 634	Emergency Medicine Rotation
PA 639	Family Medicine Rotation
PA 644	Flex Core Clinical Rotation

Health Services Administration BS / Health Administration MHA

Major: Health Services Administration (BS) and Health Administration (MHA)
Degree Awarded: Bachelor of Science (BS) and Master of Health Administration (MHA)
Calendar Type: Quarter
Minimum Required Credits: 225.0
Co-op Options: One Co-op (Four years)
BS Classification of Instructional Programs (CIP) code: 51.0701
BS Standard Occupational Classification (SOC) code: 11-9111
MHAD Classification of Instructional Programs (CIP) code: 51.0701
MHAD Standard Occupational Classification (SOC) code: 11-9111

About the Program

This is an accelerated 4+1 program that allows BS students to complete both Bachelor's and Master's degrees in five years. The MHA is a Master's degree in one of the fastest-growing fields according to the U.S. Bureau of Labor Statistics. Eligible students will begin taking MHA courses in their third year and then complete the Master's degree in the summer term of their fifth year.

Additional Information

For more information about this program, please contact CNHPAdvising@drexel.edu.

For more information, visit the Health Services Administration (https://drexel.edu/cnhp/academics/undergraduate/BS-Health-Services-Administration/) page on the College's website.

Admission Requirements

BS students must meet the eligibility requirements for the MHA program prior to submitting their application. The MHA requires a 3.0 cumulative GPA.

Degree Requirements

English Sequence		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Natural Science w/Laboratory*		**4.0-5.0**
BIO 107 & BIO 108	Cells, Genetics & Physiology and Cells, Genetics and Physiology Laboratory	4.0
Mathematics		
MATH 171	Introduction to Analysis A	3.0
MATH 172	Introduction to Analysis B	3.0
Accounting		
ACCT 110	Accounting for Professionals	4.0
Computing Course		
CS 150	Computer Science Principles	3.0
Drexel Experience		
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development **	1.0
UNIV NH101	The Drexel Experience	1.0
Business Courses		
ECON 240	Economics of Health Care Systems	4.0
ORGB 300 [WI]	Organizational Behavior	4.0
HSCI 345	Statistics for Health Sciences	4.5
Humanities & Social Science Courses		
PSCI 110	American Government	4.0
SOC 101	Introduction to Sociology	3.0
Health Services Administration (HSAD) Courses		
HSAD 210	Health-Care Ethics I	3.0
HSAD 310	Introduction to Health-Systems Administration	3.0
HSAD 321	Health-Care Human Resources	3.0
HSAD 322	Health-Care Law	3.0
HSAD 330	Financial Management in Health Care	3.0
HSAD 331 [WI]	Non-profits and Health Care	3.0
HSAD 332 [WI]	Health-Care Marketing	3.0
HSAD 334	Management of Health Services	3.0
HSAD 335 [WI]	Health-Care Policy	3.0
HSAD 340	Leadership in Health Services Administration	3.0
HSAD 345	Ethics in Health Care Management	3.0
Health Services Administration (HSAD) Electives (see list below)		27.0
Free Electives		39.0
Humanities & Social Science Electives ***		29.0
MHA CORE COURSES		
HSAD 500	Historical Influences on the US Healthcare System	4.0
HSAD 501	Managerial Epidemiology	3.0
HSAD 505	Ethical and Legal Issues in Healthcare Management and Policy	4.0
HSAD 515	Practice issues in Healthcare Management	4.0
HSAD 522	Applied Management Project	4.0
HSAD 525	National Health Expenditures	4.0
HSAD 530	Politics and Policy of Healthcare Resources	4.0
HSAD 540	Resources, Recruitment and Retention in Healthcare	4.0
HSAD 550	Strategic Planning for Healthcare Administration	4.0
IPS 564	The Business of Healthcare	3.0

MHA ELECTIVES	7.0
Total Credits	**225.5-226.5**

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Students may select from Biology (BIO), Chemistry (CHEM), or Anatomy (ANAT) courses. However, any course selected must include a laboratory component. Additional natural science subject options may be considered to meet the Natural Science requirement with the approval of the student's advisor.

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Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program and major. COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

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Humanities (courses at the 100-499 level in ANTH, ECON, HIST, HUM, PHIL, SOC OR PSY) or language electives (courses at 100-499 level in ARBC, CHIN, FREN, GERM, HBRW, JAPN, KOR, SPAN) for a minimum of 29.0 credits.

Health Services Administration (HSAD) Electives		
HSAD 212	Careers in the Health Professions	3.0
HSAD 215	Physician Practice Management	3.0
HSAD 225	Perspectives on Disability	3.0
HSAD 305	Aging & the Law	3.0
HSAD 308	The Affordable Care Act	3.0
HSAD 309	Advanced Health-Care Ethics	3.0
HSAD 312	Development of World Health Care	3.0
HSAD 313	Evolution of Health Care in the United States	3.0
HSAD 314	Aging in a Global Context	3.0
HSAD 315	Interdisciplinary Health Services	3.0
HSAD 316	Health Care across Cultures	3.0
HSAD 317	Religious Views on Health Care	3.0
HSAD 318	Health and Vulnerable Populations	3.0
HSAD 319	Women and the Health Professions	3.0
HSAD 320	Managed Health Care	3.0
HSAD 323	Introduction to Long-Term Care Administration	3.0
HSAD 324	Health Technology and Ethical Responsibility	3.0
HSAD 325	Issues in Health Care System	3.0
HSAD 326	Holism and Health Care	3.0
HSAD 327	Partnerships in Health Care	3.0
HSAD 328	Health Care for Diverse Groups	3.0
HSAD 329	Health Care and the Media	3.0
HSAD 333	Health, Illness, and the Arts	3.0
HSAD 336	Urban Health Care	3.0
HSAD 337	Health Care/Quality Improvement	3.0
HSAD 341	Risk Management in Healthcare Organizations	3.0
HSAD 342	Children and Health Care	3.0
HSAD 343	Health and Illness in Film	3.0
HSAD 346	Mental Illness in the Media and Arts	3.0
HSAD 351	Ethical Issues in Reproduction	3.0
HSAD 352	Ethics in Health Care Research	3.0
HSAD 353	Public Health Ethics	3.0
HSAD 357	Health Information Systems	3.0
HSAD 360	Applied Healthcare Leadership	3.0
HSAD 362	Madness, Mental Health and Psychiatry in the Modern West	4.0
HSAD 363	Health Care Privacy & Security	3.0
HSAD 365	Advanced Healthcare Finance	3.0
HSAD 366	Global Aging Intensive Course Abroad	3.0

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

Plan of Study

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ACCT 110	4.0	ENGL 102	3.0	CIVC 101	1.0	VACATION	
ENGL 101	3.0	MATH 171	3.0	ENGL 103	3.0		
SOC 101	3.0	PSCI 110	4.0	HSAD 210	3.0		
UNIV NH101	1.0	(UG) Humanities & Soc Science Elective	3.0	HSAD 310	3.0		
BIO 107 & BIO 108	4.0	(UG) Natural Science course w/laboratory	4.0-5.0	MATH 172	3.0		
				(UG) Humanities/ Soc Science Elective	3.0		
	15		**17-18**		**16**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CS 150	3.0	ECON 240	4.0	HSAD 335	3.0	COOP 101*	1.0
HSAD 322	3.0	HSAD 321	3.0	HSAD 340	3.0	HSCI 345	4.5
HSAD 334	3.0	HSAD 330	3.0	HSAD 345	3.0	(UG) HSAD Electives	6.0
(UG) Humanities/Soc Science Elective	3.0	(UG) HSAD Elective	3.0	(UG) Free Electives	7.0	(UG) Free Electives	6.0
(UG) Free Electives	6.0	(UG) Humanities/Soc Science Elective	4.0				
	18		**17**		**16**		**17.5**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ORGB 300	4.0	HSAD 332	3.0	COOP EXPERIENCE		COOP EXPERIENCE	
(UG) Free Elective	4.0	(UG) Humanities/Soc Science Elective	3.0				
(UG) HSAD Elective	3.0	(UG) Free Electives	6.0				
(UG) Humanities & Soc Science Elective	3.0	HSAD 500	4.0				
HSAD 505	4.0						
	18		**16**		**0**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSAD 331	3.0	(UG) Free Elective	4.0	(UG) Free Electives	6.0	STUDENT CONVERTS TO GRADUATE STATUS	
(UG) Humanities/Soc Science Elective	3.0	(UG) HSAD Electives	6.0	(UG) HSAD Elective	3.0		
(UG) HSAD Electives	6.0	(UG) Humanities/Soc Science Elective	4.0	(UG) Humanities/Soc Science Elective	3.0		
HSAD 501	3.0			HSAD 550	4.0		
	15		**14**		**16**		**0**

Fifth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSAD 525	4.0	IPS 564	3.0	HSAD 515	4.0	HSAD 522	4.0
HSAD 530	4.0	(GR) MHA Elective	3.0	HSAD 540	4.0	(GR) MHA Elective	4.0
	8		**6**		**8**		**8**

Total Credits 225.5-226.5

*

Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program and major. COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

Health Services Administration BS / Public Health MPH

Major: Health Services Administration (BS) and Public Health (MPH)
Degree Awarded: Bachelor of Science (BS) and Master of Public Health (MPH)
Calendar Type: Quarter
Minimum Required Credits: 237.0
Co-op Options: One Co-op (Four years)
BS Classification of Instructional Programs (CIP) code: 51.0701
BS Standard Occupational Classification (SOC) code: 11-9111
MPH Classification of Instructional Programs (CIP) code: 51.2201
MPH Standard Occupational Classification (SOC) code: 11-9111

About the Program

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

Students in this accelerated, dual degree program apply to the Masters of Public Health Program during the fall quarter of their junior year. They then follow the same application procedures as other applicants. (Any student who does not meet the entrance requirements of the graduate program will be able to complete the fourth year of the Health Services Administration program and receive a BS degree.)

Students in the Master of Public Health program complete 56.0 graduate quarter credits to meet the requirements of the master's program. The accelerated, dual degree program represents an acceleration of only the undergraduate portion of the student's curriculum.

Additional Information

For more information, visit the College of Nursing and Health Professions Accelerated Dual Degree Programs (https://drexel.edu/cnhp/academics/undergraduate/Health-Services-Administration-BS-Public-Health-MPH/) page.

Degree Requirements

English Sequence		
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Natural Science with Lab ^^		**8.0**
Mathematics		
MATH 171	Introduction to Analysis A	3.0
MATH 172	Introduction to Analysis B	3.0
Computing Course		
CS 150	Computer Science Principles	3.0
Drexel Experience		
CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development	1.0
UNIV NH101	The Drexel Experience	1.0
Health Services Administration (HSAD) Courses		
HSAD 210	Health-Care Ethics I	3.0
HSAD 310	Introduction to Health-Systems Administration	3.0
HSAD 321	Health-Care Human Resources	3.0
HSAD 322	Health-Care Law	3.0
HSAD 330	Financial Management in Health Care	3.0
HSAD 331 [WI]	Non-profits and Health Care	3.0
HSAD 332 [WI]	Health-Care Marketing	3.0
HSAD 334	Management of Health Services	3.0
HSAD 335 [WI]	Health-Care Policy	3.0

HSAD 340	Leadership in Health Services Administration	3.0
HSAD 345	Ethics in Health Care Management	3.0
Business Courses		
ACCT 110	Accounting for Professionals	4.0
Complete 1 of the following ECON courses		4.0
ECON 201	Principles of Microeconomics	
ECON 202	Principles of Macroeconomics	
ECON 240	Economics of Health Care Systems	
ORGB 300 [WI]	Organizational Behavior	4.0
HSCI 345	Statistics for Health Sciences	4.0-4.5
or STAT 201	Introduction to Business Statistics	
Humanities and Social Sciences Courses		
PSCI 110	American Government	4.0
SOC 101	Introduction to Sociology	3.0
Health Services Administration (HSAD) Electives (choose any HSAD 100-499 course except those required above)		**27.0**
Humanities and Social Sciences Electives [*]		**29.0**
Free Electives		**39.0**
MPH Core Requirements		**17.0**
BST 571	Introduction to Biostatistics	
EPI 570	Introduction to Epidemiology	
HMP 505	Qualitative Data and Mixed Methods Analysis	
PBHL 500	Practical Experience for the Master of Public Health	
PBHL 510	Public Health Foundations and Systems I	
PBHL 511	Public Health Foundations and Systems II	
MPH Discipline Specific Courses [†]		16.0
MPH Integrated Learning Experience [‡]		6.0
MPH Electives/Graduate Minor Courses		18.0
Total Credits		**237.0-237.5**

^^

Students may select from Biology (BIO), Chemistry (CHEM) or Anatomy (ANAT) courses. However, any course selected must include a laboratory component. Additional natural science subject options may be considered with the approval of the student's advisor.

*****

Humanities (courses at the 100-499 level in ANTH, ECON, HIST, HUM, PHIL, SOC or PSY) or language electives (courses at 100-499 level in ARBC, CHIN, FREN, GERM, HBRW, JAPN, KOR, SPAN) for a minimum of 29.0 credits.

†

Students will follow the required curriculum of their chosen MPH major.

‡

Integrated Learning Experience courses depend on the MPH major. Community Health & Prevention: CHP 750 and CHP 751. Environmental and Occupational Health: EOH 750 and EOH 751; Epidemiology: EOH 750 and EOH 751; Health Management & Policy: HMP 750 and HMP 751.

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ACCT 110	4.0	ENGL 102	3.0	CIVC 101	1.0	VACATION	
ENGL 101	3.0	MATH 171	3.0	ENGL 103	3.0		
SOC 101	3.0	PSCI 110	4.0	HSAD 210	3.0		

UNIV NH101	1.0	(UG) Humanities & Soc Science Electives	3.0	HSAD 310	3.0		
(UG) Natural Science course w/laboratory	4.0	(UG) Natural Science course w/laboratory	4.0	MATH 172	3.0		
				(UG) Humanities/Soc Science Elective	3.0		
	15		**17**		**16**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CS 150	3.0	ECON 240	4.0	HSAD 335	3.0	COOP 101*	1.0
HSAD 322	3.0	HSAD 321	3.0	HSAD 340	3.0	HSCI 345 or STAT 201	4.0-4.5
HSAD 334	3.0	HSAD 330	3.0	HSAD 345	3.0	(UG) HSAD Electives	6.0
(UG) Humanities/Soc Science Elective	3.0	(UG) HSAD Elective	3.0	(UG) Free Electives	7.0	(UG) Free Electives	6.0
(UG) Free Electives	6.0	(UG) Humanities/Soc Science Elective	4.0				
	18		**17**		**16**		**17-17.5**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
ORGB 300	4.0	HSAD 332	3.0	COOP Experience*		COOP Experience*	
(UG) HSAD Elective	3.0	(UG) Humanities & Soc Science Elective	3.0	HMP 505	3.0		
(UG) Humanities & Soc Science Elective	3.0	(UG) Free Electives	7.0				
(UG) Free Elective	4.0	BST 571	3.0				
EPI 570	3.0						
	17		**16**		**3**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HSAD 331	3.0	(UG) HSAD Electives	6.0	(UG) HSAD Elective	3.0	Students convert to Grad Status	
(UG) Humanities & Soc Science Elective	3.0	(UG) Humanities & Soc Science Elective	4.0	(UG) Free Electives	6.0		
(UG) HSAD Electives	6.0	(UG) Free Electives	3.0	(UG) Humanities & Soc Science Elective	3.0		
PBHL 510	4.0	PBHL 511	4.0	PBHL 500	0.0		
				(GR) Discipline MPH	4.0		
				(GR) MPH Elective	3.0		
	16		**17**		**19**		**0**

Fifth Year

Fall	Credits	Winter	Credits	Spring	Credits
(GR) Discipline Specific MPH Course	3.0	(GR) Discipline Specific MPH Course	3.0	(GR) Discipline Specific MPH Course	6.0
(GR) Integrated Learning Experience I**	3.0	(GR) Integrated Learning Experience II**	3.0	(GR) MPH Elective	3.0
(GR) MPH Elective	6.0	(GR) MPH Elective	6.0		
	12		**12**		**9**

Total Credits 237-237.5

*****

Students may be registered in a later term based on their co-op program (4-year or 5-year) and cycle. Select students may be eligible to replace COOP 101 with COOP 001.

******

Integrated Learning Experience courses depend on the MPH major. Community Health & Prevention: CHP 750 and CHP 751. Environmental and Occupational Health: EOH 750 and EOH 751; Epidemiology: EOH 750 and EOH 751; Health Management & Policy: HMP 750 and HMP 751.

Nursing: Accelerated RN/BSN/MSN

Major: Nursing
Degree Awarded: Bachelor of Science in Nursing (BSN) and Master of Science in Nursing (MSN)
Calendar Type: Quarter
Minimum Required Credits: 78.0
Co-op Options: No Co-op (Three years)

Classification of Instructional Programs (CIP) code: 51.1601
Standard Occupational Classification (SOC) code: 29-1141

About the Program

The RN-BSN-MSN Option is a pathway for RNs who have a bachelor's degree in a field other than nursing and are interested in pursuing a fast-track option to complete a BSN and MSN.

Application

For the following tracks, students submit an application to the MSN program upon admission.

Eligible MSN Programs

- MSN in Nursing Education (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/nursingedandfacrolecon/)
- MSN in Nursing Leadership in Health Systems Management (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/nursingleadershipinhealthsystemsmanagementcon/)
- MSN in Public Health Nursing (http://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/publichealthnursingmsn/)
- MSN in Quality, Safety and Risk Management in Healthcare (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/qualitysafetyriskmanagementmsn/)

Nurse Practitioner programs may be eligible in 2024-2025 Academic Year.

Eligible MSN Nurse Practitioner Programs

- Adult-Gerontology Acute Care Nurse Practitioner (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/adultacutecarecon/)
- Adult-Gerontology Primary Care Nurse Practitioner (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/adultgerontologyprimarycarecon/)
- Family/Individual Across the Lifespan Nurse Practitioner (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/familynursepractitionercon/)
- Family/Individual Across the Lifespan with Emergency Specialization Nurse Practitioner (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/family-individualacrossthelifespan-emergencyspecialization/)
- Pediatric Acute Care Nurse Practitioner (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/pediatricacutecarecon/)
- Pediatric Primary Care Nurse Practitioner (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/pediatricprimarycarenursepractitionermsn/)
- Pediatric Primary Care and Pediatric Acute Care Dual Option Nurse Practitioner (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/pediatricprimary-acutecaredualnursepractitionermsn/)
- Psychiatric Mental Health Nurse Practitioner (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/psychiatricmentalhealthpractitionercon/)
- Women's Heath/Gender Related Nurse Practitioner (https://catalog.drexel.edu/graduate/collegeofnursingandhealthprofessions/womensnursepractitionercon/)

Admission Requirements

The students must meet the admission requirements for the MSN program.

Student's academic transcript and professional experience are reviewed and credit is applied to meet the degree requirements. Students are awarded both the BSN and MSN at the completion of the program.

Drexel University is currently unable to admit students living in Washington state to this program.

Additional Information

For more information, contact:

Graduate Nursing Division
CNHPGraduateDivision@drexel.edu

Degree Requirements

Note: **MSN Nurse Practitioner concentrations may be eligible for the 2024-2025 academic year.**

BSN Courses		
NURS 333	Appreciative Inquiry into Nursing: Science, Theory, and Patterns of Knowing	4.5
NURS 341	Using Genetics and Genomics to Inform Nursing Care Delivery	4.5

NURS 347	Educating Patients, Professionals, and the Public to Improve Health Outcomes	4.5
NURS 348	Responding to the Challenges of Global and Population-based Health Needs	4.5
Portfolio Assessment *		**15.0**
MSN Core Courses		
NURS 500 [WI]	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
NURS 544	Quality and Safety in Healthcare	3.0
RSCH 503	Research Methods and Biostatistics	3.0
RSCH 504	Evaluation and Translation of Health Research	3.0
MSN Concentration - select one from the options below		**30.0-31.0**
Total Credits		**78.0-79.0**

*

Students will not register for "Portfolio Assessment." Instead they will receive 15.0 credits at the completion of an approved assessment.

MSN Concentrations (Select one)

Nursing Education

IPS 617	Simulation in Healthcare Education	4.5
NURS 574	Advanced Integrative Clinical Concepts	4.5
NURS 591	Foundations of Healthcare Education	3.0
NURS 606	Curriculum Design for Higher Level Cognition	3.0
NURS 613	The Role and Responsibility of the Nurse Educator	3.0
NURS 615	Assessment, Measurement and Evaluation	3.0
NURS 616	Teaching Methods in Nursing Education	3.0
NUPR 618	Nursing Education Practicum I	3.0
NUPR 619	Nursing Education Practicum II	3.0
Total Credits		**30.0**

Nursing Leadership in Health Systems Management

NUPR 663	Communication and Self-Awareness for Leadership	4.5
NUPR 664	The Economics and Business of Healthcare	4.5
NUPR 665	Managing Operations and Human Resources for Quality Outcomes of Care Delivery	4.5
NURS 568	Practicum and Symposium in Healthcare Operations Management	3.0
NURS 569	Practicum and Symposium in Technology and Management of Information in Healthcare Organizations	3.0
PROJ 501	Introduction to Project Management	3.0
Electives*		7.5
Total Credits		**30.0**

*

Nursing Electives can be any course with the prefix Nursing (NURS, NUPR), Interprofessional Studies (IPS), or Complementary and Integrative Therapies (CIT), with course number ranging from 500-699.
Other graduate courses outside of these designations will need to be approved by the department chairperson.

Public Health Nursing

CHP 561	Overview of Issues in Global Health	3.0
EPI 570	Introduction to Epidemiology	3.0
or NURS 531	Epidemiology in Action: Tracking Health & Disease	
HMP 505	Qualitative Data and Mixed Methods Analysis	3.0
IPS 511	Collaboration with Vulnerable Populations	3.0
NURS 665	Advanced Nursing Practice in Population Health	5.0
PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0
Electives (Nursing* or Public Health**)		6.0
Total Credits		**31.0**

*

*Nursing Electives can be any course with the prefix Nursing (NURS, NUPR), Interprofessional Studies (IPS), or Complementary and Integrative Therapies (CIT), with a course number ranging from 500-699.

**

Public Health Electives can be any course with the prefix Community Health and Prevention (CHP), Biostatistics (BST), Environmental and Occupational Health (EOH), Epidemiology (EPI), Health Management and Policy (HMP), with a course number ranging from 500-699.
Other graduate courses outside of these designations will need to be approved by the department chairperson.

Quality, Safety and Risk Management in Healthcare

IPS 584	Analysis of Performance Standards in Healthcare Quality	3.0
IPS 585	Science of Safety, Human Factors, and System Thinking	3.0
IPS 587	Safety Culture in Healthcare	3.0
IPS 601	Quality, Safety and Risk Management Capstone	5.0
LSTU 551	Compliance Skills: Auditing, Investigation & Reporting	4.0
LSTU 600	Health Care Rules and Regulations	4.0
LSTU 601	Health Care Quality, Patient Safety and Risk Management	4.0
LSTU 602	Patients and Privacy: HIPAA and Related Regulations	4.0
Total Credits		**30.0**

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Writing-Intensive Course Requirement

A [WI], Writing Intensive, next to a graduate course in this catalog indicates that the graduate course is a writing intensive course. The graduate course is a required course in your curriculum.

Sample Plan of Study - Clinical Nurse Leader Concentration

Quality, Safety and Risk Management

First Year

Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
NURS 333	4.5	NURS 347	4.5	NURS 500	3.0	LSTU 551	4.0
NURS 341	4.5	NURS 348	4.5	NURS 544	3.0	NURS 502	3.0
		Portfolio Assessment*	15.0				
	9		**24**		**6**		**7**

Second Year

Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
LSTU 600	4.0	LSTU 601	4.0	IPS 584	3.0	IPS 585	3.0
RSCH 503	3.0	RSCH 504	3.0	LSTU 602	4.0	IPS 587	3.0
	7		**7**		**7**		**6**

Third Year

Fall	**Credits**
IPS 601	5.0
	5

Total Credits 78

*

Students will not register for "Portfolio Assessment." Instead they will receive 15.0 credits at the completion of an approved assessment.

Public Health Nursing

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
NURS 333	4.5	NURS 341	4.5	NURS 348	4.5	VACATION	
		NURS 347	4.5	Portfolio Assessment*	15.0		
	4.5		**9**		**19.5**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
NURS 500	3.0	PBHL 511	4.0	EPI 570	3.0	NURS 502	3.0
PBHL 510	4.0	Elective	3.0	RSCH 503	3.0	RSCH 504	3.0
	7		**7**		**6**		**6**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits
CHP 561	3.0	IPS 511	3.0	HMP 505	3.0
NURS 544	3.0	Elective	3.0	NURS 665	5.0
	6		**6**		**8**

Total Credits 79

*****

Students will not register for "Portfolio Assessment." Instead they will receive 15.0 credits at the completion of an approved assessment.

Nursing Education Concentration

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
NURS 333	4.5	NURS 347	4.5	NURS 500	3.0	NURS 502	3.0
NURS 341	4.5	NURS 348	4.5	NURS 591	3.0	NURS 606	3.0
		Portfolio Assessment*	15.0				
	9		**24**		**6**		**6**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
NURS 613	3.0	NURS 615	3.0	IPS 617	4.5	NURS 574	4.5
RSCH 503	3.0	RSCH 504	3.0	NURS 616	3.0	NUPR 618	3.0
	6		**6**		**7.5**		**7.5**

Third Year

Fall	Credits
NURS 544	3.0
NUPR 619	3.0
	6

Total Credits 78

*****

Students will not register for "Portfolio Assessment." Instead they will receive 15.0 credits at the completion of an approved assessment.

Nursing Leadership in Health Systems Management

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
NURS 333	4.5	NURS 347	4.5	NURS 500	3.0	NUPR 665	4.5
NURS 341	4.5	NURS 348	4.5	NURS 502	3.0	RSCH 503	3.0
		Portfolio Assessment*	15.0				
	9		**24**		**6**		**7.5**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
PROJ 501	3.0	NURS 544	3.0	NUPR 664	4.5	NURS 568	3.0
RSCH 504	3.0	NUPR 663	4.5			Elective	3.0
	6		**7.5**		**4.5**		**6**

Third Year

Fall	Credits
NURS 569	3.0

Elective	4.5
	7.5

Total Credits 78

*****

Students will not register for "Portfolio Assessment." Instead they will receive 15.0 credits at the completion of an approved assessment.

Graduate Nursing Faculty

Anthony Angelow, PhD, CRNP, ACNPC, AGACNP-BC, FAEN, FAANP *(University of Northern Colorado) Chair, Advanced Practice Nursing*. Associate Clinical Professor. Nurse Practitioner Role Transition, Acute Care, Trauma/Surgical Critical Care, Ethics/Health Law

Susan M. Burke, PhD, RN, CPNP-BC *(The Catholic University of America) Track Director, Pediatric Primary Care*. Associate Clinical Professor. Pediatric Primary Care Nursing

Rita Carroll, PhD, CPCRT, CBIST, CMHMP *(Capella University)*. Assistant Clinical Professor. Complementary and Integrative Health, Cognitive Rehabilitation, Integrative Health Coaching, Mindfulness

Jennifer Coates, MSN, MBA, ACNPC, ACNP-BC *(The University of Pennsylvania)*. Associate Clinical Professor. Adult Critical Care, Adult/Gero Acute Care Nurse Practitioner, Nursing Leadership

Frances (Fran) Cornelius, PhD, MSN *(Drexel University; Wayne State University)*. Clinical Professor. Online Learning, Nursing Education, Public/Community Health Nursing

Jennifer Cummings, DNP, MSN, CRNP-BC *(Drexel University)*. Assistant Clinical Professor. Adult Health, Primary Care, Evidence-Based Practice.

Diane DePew, DSN, BSN, RN-BC, CNE *(University of Alabama, Birmingham)*. Associate Clinical Professor. Nursing Leadership and Development, Nursing Education

Kathryn (Katie) Farrell, EdD, MSN, RN *(Drexel University) Quality Safety and Risk Management Track Director: Graduate Nursing*. Assistant Clinical Professor. Nursing Education, Quality, Safety, and Risk Management.

Alecia Schneider Fox, PhD, APRN, FNP-BC *(Widener University)*. Assistant Clinical Professor. Emergency Nurse Practitioner, Critical Care Nursing

Marcia Gamaly, PhD, MSN, MHS, RN-BC, CBN *(Villanova University)*. Assistant Clinical Professor. Online Education, Clinical Education, Emergency Nursing

Kimberly Garcia, DNP, APRN, PMHNP-BC, FNT-BC, GNP-BC, NP-C *(Indiana University)*. Assistant Clinical Professor. Family Nurse Practitioner, Psychiatric/Mental Health Nursing, Transcultural/International Nursing

Maria Irerra-Newcomb, MSN, APRN, FNP-BC *(Duke University)*. Assistant Clinical Professor. Family/Individual Across the Lifespan Nursing

Marie McClay, DrNP, WHNP-BC, RN *(Drexel University)*. Assistant Clinical Professor. Women's Health Nursing

Cheryl Mele, DNP, PNPAC-BC, PNP PC/AC-BC, NNP-BC *(Touro University)*. Associate Clinical Professor. Pediatric Acute Care Nursing, Pediatric Primary Care Nursing, Nursing Leadership, Healthcare Genetics

Sally K. Miller, PhD, CRNP, FAANP, FNP-BC, AGACNP-BC, AGPCNP-BC, PMHNP-BC *(Walden University)*. Clinical Professor. Adult-Gerontology Acute/Primary Care Nursing, Psychiatric Mental Health Nursing, Pathophysiology, Pharmacology

Kate Morse, PhD, MSN, RN, AGACNP-RET *(Villanova University)*. Clinical Professor. Adult Critical Care Nursing, Healthcare Simulation

Jackie Murphy, EdD, RN, CNE *(Drexel University)*. Associate Clinical Professor. Nursing Education, Online Learning, Nursing Theory, Nursing Research, Mindfulness

Jennifer (Jenn) Myers, MSN, RN, CNE *(Drexel University)*. Assistant Clinical Professor. Pediatric Nursing, Nursing Education, Online Learning

Barbara R. Osborne, DNP, APRN, WHNP-BC *(Drexel University)*. Assistant Clinical Professor. Women’s Health, Metabolic Health, Primary Care, Evidence-Based Practice, Advanced Practice Nursing

Lori Ruskin, MSN, FNO-BC *(Thomas Jefferson University)*. Assistant Clinical Professor. Family Nurse Practitioner, Adult Gerontology Primary Care Nurse Practitioner

Kelley Scott, DNP, APN-BC *(Drexel University)*. Assistant Clinical Professor. Emergency Nursing, Family/Individual Across the Lifespan Nursing

Joanne Serembus, EdD, RN, CCRN (Alum), CCNE *(Widener University)*. Clinical Professor. Online Learning, Nursing Education

Susan Solecki, DrPH, FNP-BC, PPCNP-BC *(Drexel University)*. Clinical Professor. Advanced Practice Nursing, Pediatrics, Adult Health, Epidemiology, Occupational Health

Erica Springer, MSN, CRNP, WHNP-BC *(Drexel University)*. Assistant Clinical Professor. Women's Health Nurse Practitioner

Kimberly J. Twaddell, DNO, CRNP, ACNPC, CCRN *(University of Northern Colorado)*. Assistant Clinical Professor. Advanced Practice Nursing, Trauma/Surgical Critical Care, Acute Care

Megan Walsh Ossont, PhD, MSN, CRNP *(Villanova University)*. Assistant Clinical Professor. Nursing Research, Adult Psychiatry, Correctional Psychiatry

Virginia (Ginny) Wilson, MSN, RN, NEA-BC, NE-BC, PhD (c) *(Widener University)*. Assistant Clinical Professor. Nursing Leadership

Patricia (Patti) Zuzelo, EdD, RN, APRN, ACNS-BC, ANP-BC, ANEF, FAAN *(Widener University)*. Clinical Professor. Advanced Practice Nursing, Leadership and Management, Nursing Education, Clinical Nurse Specialist (Adult Health), Adult Nurse Practitioner

Nutrition and Foods BS and Nutrition and Dietetics MS Bridge Program

Major: Nutrition and Foods & Nutrition and Dietetics
Degree Awarded: Bachelor of Science (BS) and Master of Science (MS)
Calendar Type: Quarter
Minimum Required Credits: 225.0
Co-op Options: None
BS Classification of Instructional Programs (CIP) code: 30.1901
BS Standard Occupational Classification (SOC) code: 29-1031
MS Classification of Instructional Programs (CIP) code: 51.4101
MS Standard Occupational Classification (SOC) code: 29-1031

About the Program

The BS/MS Bridge Program in Nutrition Sciences is an academic track that enables *high-achieving* students to complete both a bachelor's degree and master's degree in five years in preparation for becoming a registered dietitian/registered dietitian nutritionist (RD/RDN). Students pursue the BS in Nutrition and Foods (https://drexel.edu/cnhp/academics/undergraduate/BS-Nutrition-and-Foods/) during their first four years of study and the MS in Nutrition and Dietetics (https://drexel.edu/cnhp/academics/graduate/MS-Nutrition-and-Dietetics/) during the final year of study. Students are eligible for the program at the end of their second year of study if they have achieved a grade of B or better in all required courses and have a GPA of 3.0 or higher. Transfer students or those who must retake courses to earn the minimum grade needed may require an additional year before entering the program.

The Bachelor of Science in Nutrition and Foods is awarded following the completion of year four (first year of graduate study), and the Master of Science in Nutrition and Dietetics is awarded following year five. Experiential learning is provided during the master's degree to fulfill the Accreditation Council for Education in Nutrition and Dietetics Future Graduate model program. Upon completion, graduates are eligible to sit for the registered dietitian nutritionist entry-level exam without completing an additional dietetic internship.

Additional Information

For more information about Nutrition Sciences, visit the College of Nursing and Health Professions Nutrition Sciences (http://drexel.edu/cnhp/academics/departments/Nutrition-Sciences/).

Admission Requirements

The BS/MS Bridge Program in Nutrition Sciences is available to *high-achieving* students in the BS Nutrition and Foods program who plan to become Registered Dietitians/Registered Dietitian Nutritionists. Current students may apply for admission to the program after they have completed the first two years of the undergraduate degree program. Transfer students may apply if they have fulfilled comparable coursework at another accredited college or university and meet all other admission criteria. Applicants must have earned a grade of B or better in all required courses in the first two years of the program. Transfer students or those who must re-take courses to earn the minimum grade needed may require an additional year to complete the program.

Degree Requirements

Communication and English		
COM 230	Techniques of Speaking	3.0
COM 310 [WI]	Technical Communication	3.0
or COM 345	Intercultural Communication	
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	

ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
Physical and Biological Sciences		
BIO 122	Cells and Genetics	4.5
CHEM 101	General Chemistry I	3.5
CHEM 103	General Chemistry III	4.5
CHEM 108	Health Chemistry I	3.0
HSCI 101	Anatomy and Physiology I	5.0
HSCI 102	Anatomy and Physiology II	5.0
HSCI 103	Anatomy and Physiology III	5.0
Humanities and Social Sciences		
SOC 101	Introduction to Sociology	3.0
or ANTH 101	Introduction to Cultural Diversity	
PSY 101	General Psychology I	3.0
Management and Computing		
HRM 455	Hospitality Human Resources Management	3.0
ORGB 300 [WI]	Organizational Behavior	4.0
Foods, Food Safety, and Food Production		
CULA 115	Culinary Fundamentals	3.0
FDSC 154	Science of Food and Cooking	4.0
FDSC 270	Microbial Food Safety and Sanitation	4.0
FDSC 350	Experimental Foods: Product Development	3.0
HRM 120	Principles of Food-Service Management	3.0
HRM 215	Commercial Food Production	4.0
Mathematics and Statistics		
HSCI 345	Statistics for Health Sciences	4.5
MATH 101	Introduction to Analysis I	4.0
Nutrition and Food Sciences		
NFS 100	Nutrition, Foods, and Health	2.0
NFS 101	Introduction to Nutrition & Food	1.0
NFS 202	Nutrition: Wellness and Weight Management	3.0
NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0
NFS 230	Intermediate Nutrition	4.0
NFS 265	Professional Issues in Nutrition and Foods	3.0
NFS 345	Foods and Nutrition of World Cultures	3.0
NFS 415	Advanced Nutrition I: Macronutrition	4.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
NFS 494	Senior Project I	2.0
NFS 495	Senior Project II	2.0
NFS 496	Senior Project III	2.0
Additional BS Requirements		
CIVC 101	Introduction to Civic Engagement	1.0
UNIV NH101	The Drexel Experience	1.0
Free electives		**38.0**
Shared BS/MS Coursework		
FDSC 506	Food Composition & Behavior	3.0
NFS 510	Profession of Dietetics	3.0
NFS 530	Macronutrient Metabolism	3.0
NFS 531	Micronutrient Metabolism	3.0
NFS 525	Nutritional Assessment Through the Life Cycle	3.0
NFS 526	Lifecycle Nutrition	3.0
NFS 601	Research Methods	3.0
NFS 609	Supervised Experiential Learning *	3.0
NFS 690	Community Nutrition	3.0
MS Degree Requirements		
NFS 543	Medical Nutrition Therapy I	3.0
NFS 544	Medical Nutrition Therapy II	3.0
NFS 545	Nutrition in Critical Care	3.0
NFS 546	World Nutrition	3.0
NFS 550	Foodservice Systems Management	3.0

NFS 609	Supervised Experiential Learning *	12.0
NFS 630	Nutrition Counseling	3.0
NFS I699	Independent Study in Nutrition & Food Science	3.0
Graduate elective		**3.0**
Total Credits		**225.0**

*

NFS 609 is taken multiple times for a total of 15.0 credits

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

No Co-Op Option

First Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
CHEM 108	3.0	CHEM 101	3.5	BIO 122	4.5	VACATION	
ENGL 101 or 111	3.0	CIVC 101	1.0	CHEM 103	4.5		
NFS 100	2.0	CULA 115	3.0	ENGL 103 or 113	3.0		
NFS 101	1.0	ENGL 102 or 112	3.0	FDSC 154	4.0		
PSY 101	3.0	MATH 101	4.0				
UNIV NH101	1.0						
	13		**14.5**		**16**		**0**

Second Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HRM 120	3.0	FDSC 270	4.0	COM 345	3.0	COM 230	3.0
HSCI 101	5.0	HSCI 102	5.0	HSCI 103	5.0	HSCI 345	4.5
NFS 230	4.0	NFS 202	3.0	NFS 203	4.0	SOC 101 or ANTH 101	3.0
NFS 265	3.0	(UG) Free elective	4.0	(UG) Free electives	3.0	(UG) Free electives	7.0
	15		**16**		**15**		**17.5**

Third Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
HRM 215	4.0	FDSC 350	3.0	HRM 455	3.0	Student converts to Graduate status	
NFS 415	4.0	NFS 416	4.0	NFS 345	3.0		
NFS 494	2.0	NFS 495	2.0	NFS 496	2.0		
(UG) Free electives	9.0	ORGB 300	4.0	(UG) Free electives	9.0		
		(UG) Free elective	6.0				
	19		**19**		**17**		**0**

Fourth Year

Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
FDSC 506	3.0	NFS 525	3.0	NFS 510	3.0	NFS 543	3.0
NFS 530	3.0	NFS 526	3.0	NFS 609*	3.0	NFS 550	3.0
NFS 531	3.0	NFS 601	3.0	NFS 690	3.0	NFS 609*	3.0
	9		**9**		**9**		**9**

Fifth Year

Fall	Credits	Winter	Credits	Spring	Credits
NFS 544	3.0	NFS 545	3.0	NFS 546	3.0
NFS 630	3.0	NFS 609*	3.0	NFS 609*	3.0

NFS 609*	3.0 (GR) Graduate Elective	3.0 NFS I699	3.0
	9	**9**	**9**

Total Credits 225

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NFS 609 is taken multiple times for a total of 15.0 credits

Nutrition and Foods BS and Nutrition and Dietetics MS Bridge Faculty

Nyree Dardarian, EdD, MS, RD, LDN, CSSD, FAND *(East Tennessee State University) Director, Center for Nutrition & Performance*. Clinical Assistant Professor. Energy expenditure; sports nutrition.

Mary Pat DeHaven, MS, RD, LDN *(Drexel University) Director, Nutrition & Dietetics*. Assistant Clinical Professor. Clinical nutrition.

Beth L. Leonberg, DHSc, MS, MA, RDN, CSP, FAND, LDN *(Drexel University) Director, Didactic Program in Dietetics* . Associate Clinical Professor. Pediatric nutrition.

Brandy-Joe Milliron, PhD *(Arizona State University)*. Associate Professor. The development and evaluation of modifications in the natural environment to promote healthier living; farm to table school initiatives

Jennifer Nasser, PhD, RD, FTOS *(Rutgers University)*. Associate Professor. Dopamine-mediated mechanisms of food intake regulation in humans and its impact on metabolic homeostasis, especially as it applies to obesity, eating disorders and aging. Implementation of methods to maximize nutrient density of food provided in community food services.

Deeptha Sukumar, PhD *(Rutgers University)*. Associate Professor. Vitamin D and magnesium and bone mineral density; obesity and bone mineral density.

Emeritus Faculty

Donna H. Mueller, PhD *(Temple University)*. Associate Professor Emeritus. Clinical nutrition; pediatric nutrition; nutrition in pulmonary diseases, especially cystic fibrosis; nutrition in developmental delay; dental nutrition; dietetic education and professional development.

Jennifer Quinlan, PhD *(North Carolina State University)*. Professor Emeritus. Food microbiology; microbiological quality and safety of produce, dairy and meat products in markets in high vs. low socioeconomics areas, Bacillus and Clostridium spores in food processing.

Minor in Culinary Arts

About the Minor

The minor in Culinary Arts is designed for students pursuing a variety of majors who also have an interest in food and cuisine. The required courses introduce the major cuisines and develop the necessary technical culinary skills and fundamental knowledge of foods and food preparation. Students are able to select elective courses in various cuisines or can explore other areas of the field through topics including gastronomy, the kitchen garden and food writing.

Additional Information

For more information about this program please contact askcnhp@drexel.edu or Dr. Rosemary Trout rek23@drexel.edu.

Program Requirements

Required Courses		
CULA 115	Culinary Fundamentals	3.0
CULA 120	Techniques and Traditions I	3.0
CULA 303	Global Cuisine Studio (Course taken twice for 6 credits total)	6.0
HRM 215	Commercial Food Production	4.0
Select three of the following:		8.0
CULA 121	Techniques and Traditions II	
CULA 125	Foundations of Professional Baking	
CULA 216	A la Carte	
CULA 220	Patisserie I	
CULA 225	Patisserie II	
CULA 320	Advanced Culinary Studio	
CULA 325	Garde Manger Laboratory	
CULA 316	Butchery Laboratory	

CULA 330	Charcuterie	
CULA 400	Directed Studies with a Master Chef	
CULA 405 [WI]	Culture and Gastronomy I	
CULA 410	Culture and Gastronomy II	
CULA 425	The Kitchen Garden	
CULA 426	The Kitchen Garden: Summer	
CULA 427	The Kitchen Garden: Fall	
HRM 415	Fine Dining and Services	
Total Credits		**24.0**

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Minor in Exercise Science

About the Minor

The minor in Exercise Science from the Health Sciences Department helps prepare students for graduate studies in exercise physiology, kinesiology, athletic training, physical therapy and other health-related professions. In addition, the minor provides undergraduates with the foundational knowledge, skills and abilities for professional certifications offered by the American College of Sports Medicine, the National Strength and Conditioning Association and other agencies. These certifications are often required of graduates seeking employment in the fitness industry.

This is an undergraduate minor available to Drexel students in good standing.

Program Requirements

Foundational Courses [*]		**4.0-5.0**
Choose one of the following:		
BIO 201	Human Physiology I	
HSCI 103	Anatomy and Physiology III	
HSCI 208	Human Anatomy and Physiology for Health Sciences III	
Core Courses		
HSCI 325	Exercise Physiology	4.0
HSCI 380	Strength and Conditioning	4.0
HSCI 425	Exercise Testing and Prescription	4.0
Electives		**8.0**
Students must complete at least 8 credits from the following electives list. [**]		
ESCI 101	Foundations of Exercise Science	
ESCI 201	Introduction to Exercise Science	
ESCI 210	Health and Wellness Throughout the Lifespan	
ESCI 315	Concepts & Practices in Inclusive Physical Activity	
ESCI 320	Technological Advancements and Integrations in Exercise Science	
ESCI 330	Physical Growth and Motor Behavior	
ESCI 370	Electrocardiogram Interpretation & Graded Exercise Testing	
ESCI 415	Pharmacology & Ergogenic Aids in Exercise Science	
ESCI 420	Wellness and Fitness Program Management	
ESCI 435	Exercise is Medicine: A Campus Experience	
HSCI 201	Health Assessment through the Lifespan [**]	
HSCI 326	Applied Anatomy and Kinesiology [**]	
HSCI 381	Exercise for Clinical Populations [**]	
HSCI 410	Psychology of Physical Activity	
Total Credits		**24.0-25.0**

*

Some of these courses have pre-requisites that must be met first. Please see your minor advisor to determine which course you should take and what pre-reqs are required.

**

HSCI 201, HSCI 326, and HSCI 381 are required for students to be eligible for the ACSM EP, NSCA CSCS, and other similar exercise science certifications. Students who want to be eligible for the American College of Sports Medicine's (ACSM) Exercise Physiologist (ACSM EP) or the National Strength and Conditioning Association's (NSCA) Certified Strength and Conditioning Specialist must complete courses with asterisks, which increase the total number of credits required from this list to 13.0. Please work with your minor advisor to determine which courses you should take within this minor if you intend to pursue health/fitness certification exam readiness.

Additional Information

For more information, please visit the Exercise Science Minor (https://drexel.edu/cnhp/academics/undergraduate/Minor-Exercise%20Science%20Option-Health-Sciences/) website.

Minor in Food Science

About the Minor

The minor in Food Science is designed for students interested in applying the basic sciences to the world's largest industry. The minor should be especially attractive to students in chemistry, chemical engineering, nutrition and biological sciences as it provides a background for excellent employment and post-baccalaureate study opportunities in areas closely allied to their basic disciplines.

The minor consists of 25.0 credits. Interested students should consult with a culinary science faculty member to schedule courses appropriate for their background and goals.

Additional Information

For more information about this program please contact askcnhp@drexel.edu or Dr. Rosemary Trout rek23@drexel.edu.

Program Requirements

Required Courses		
FDSC 154	Science of Food and Cooking	4.0
FDSC 270	Microbial Food Safety and Sanitation	4.0
FDSC 350	Experimental Foods: Product Development	3.0
FDSC 450	Food Microbiology	3.0
FDSC 451	Food Microbiology Laboratory	2.0
FDSC 456	Food Preservation Processes	3.0
FDSC 460	Food Chemistry	3.0
FOOD 302	Culinary Medicine	3.0
Total Credits		**25.0**

Minor in Food Studies

About the Minor

This minor seeks to capture and help students navigate the breadth of course offerings that touch upon food systems. Because food systems can be studied through many different lenses, students can adapt this Food Studies minor to their program of study. For example, students interested in public health policy issues can create a minor of hands-on, community-based culinary classes, public health and nutrition classes. Students are encouraged to work under guidance from hospitality, culinary and food science faculty.

Additional Information

For more information about this program please contact askcnhp@drexel.edu or Dr. Rosemary Trout rek23@drexel.edu.

Program Requirements

Required Courses		
CULA 115	Culinary Fundamentals	3.0
CULA 405 [WI]	Culture and Gastronomy I	3.0
FDSC 120	Food and the Senses	3.0
Food Studies Electives		
Select a minimum of 15.0 credits from the list below:		15.0

CULA 125	Foundations of Professional Baking
CULA 303	Global Cuisine Studio
CULA 410	Culture and Gastronomy II
CULA 412	Food Writing
ENTP 250	Ideation
ENTP 270	Social Entrepreneurship
ENTP 440	Launch It!: Early Stage
HRM 395	Economics of Tourism
NFS 100 & NFS 101	Nutrition, Foods, and Health and Introduction to Nutrition & Food
NFS 230	Intermediate Nutrition
NFS 345	Foods and Nutrition of World Cultures
NFS 391	Community Nutrition
FOOD 302	Culinary Medicine
FDSC 154	Science of Food and Cooking
FDSC 306	Food Composition & Behavior
PBHL 101	Public Health 101
PBHL 306	Introduction to Community Health
PSCI 369	The Politics of Food
Total Credits	**24.0**

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Minor in Health Services Administration

About the Minor

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

A grade of C (2.0) or better must be earned for each of these courses in this minor for it to be counted (HSAD 210, HSAD 310, and HSAD 334) and then a solid C or better in one of HSAD 330, HSAD 340 or HSAD 345.

Program Requirements

Required Courses		
HSAD 210	Health-Care Ethics I	3.0
HSAD 310	Introduction to Health-Systems Administration	3.0
HSAD 334	Management of Health Services	3.0
Complete 1 of the following courses:		**3.0**
HSAD 330	Financial Management in Health Care	
HSAD 340	Leadership in Health Services Administration	
HSAD 345	Ethics in Health Care Management	
Health Services Administration (HSAD) electives		
Complete 4 of the following courses:		12.0
HSAD 215	Physician Practice Management	
HSAD 225	Perspectives on Disability	
HSAD 305	Aging & the Law	
HSAD 308	The Affordable Care Act	
HSAD 309	Advanced Health-Care Ethics	
HSAD 312	Development of World Health Care	

HSAD 313	Evolution of Health Care in the United States
HSAD 315	Interdisciplinary Health Services
HSAD 316	Health Care across Cultures
HSAD 317	Religious Views on Health Care
HSAD 318	Health and Vulnerable Populations
HSAD 319	Women and the Health Professions
HSAD 320	Managed Health Care
HSAD 321	Health-Care Human Resources
HSAD 322	Health-Care Law
HSAD 323	Introduction to Long-Term Care Administration
HSAD 324	Health Technology and Ethical Responsibility
HSAD 325	Issues in Health Care System
HSAD 326	Holism and Health Care
HSAD 327	Partnerships in Health Care
HSAD 328	Health Care for Diverse Groups
HSAD 329	Health Care and the Media
HSAD 330	Financial Management in Health Care
HSAD 331 [WI]	Non-profits and Health Care
HSAD 332 [WI]	Health-Care Marketing
HSAD 336	Urban Health Care
HSAD 337	Health Care/Quality Improvement
HSAD 340	Leadership in Health Services Administration
HSAD 341	Risk Management in Healthcare Organizations
HSAD 342	Children and Health Care
HSAD 343	Health and Illness in Film
HSAD 345	Ethics in Health Care Management
HSAD 346	Mental Illness in the Media and Arts
HSAD 351	Ethical Issues in Reproduction
HSAD 353	Public Health Ethics
HSAD 357	Health Information Systems
HSAD 360	Applied Healthcare Leadership
HSAD 362	Madness, Mental Health and Psychiatry in the Modern West
HSAD 363	Health Care Privacy & Security
HSAD 365	Advanced Healthcare Finance *
HSAD 366	Global Aging Intensive Course Abroad
HSAD T180	Special Topics in Health Services Administration
HSAD T280	Special Topics in Health Services Administration
HSAD T380	Special Topics in Health Services Administration
HSAD T480	Special Topics in Health Services Administration
Total Credits	**24.0**

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Prerequisite is HSAD 330.

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Additional Information

For more information about this minor, please contact CNHPAdvising@drexel.edu.

Minor in Hospitality Management

About the Minor

The minor in Hospitality Management is designed for students pursuing a variety of majors who also have an interest in the operational side of the culinary and hospitality industry. The required courses introduce food service operations from a "front-of-house" perspective and develop the necessary technical skills and fundamental knowledge surrounding restaurant management from service fundamentals to beverage identification, appreciation and management.

Program Requirements

Required Courses:		
CULA 115	Culinary Fundamentals	3.0
FDSC 100	ServSafe	1.0
HRM 150	Food & Beverage Customer Service	3.0
HRM 215	Commercial Food Production	4.0
HRM 220	Purchasing and Cost Controls for the Hospitality Industry	3.0
HRM 330	Hospitality Marketing and Branding	3.0
HRM 415	Fine Dining and Services	4.0
HRM 435	Wine Regions of the World	3.0
Total Credits		**24.0**

Additional Information

For more information, please contact:

Paul O'Neill
Assistant Clinical Professor
Department of Food and Hospitality Management
215.571.3619
pgo27@drexel.edu

Minor in Nutrition

About the Minor

The minor in Nutrition is designed for students interested in enhancing their major with an application in human nutrition. The Nutrition minor should be especially attractive to students in the premedical, biological and behavioral neurological sciences because it provides a background for enhanced employment and post-baccalaureate study opportunities in areas closely aligned to their basic disciplines.

The minor consists of 25.0 credits. Interested students should consult with a faculty member within Nutrition Sciences (https://drexel.edu/cnhp/academics/departments/Nutrition-Sciences/) to schedule courses appropriate for their background and goals.

Program Requirements

Required courses		
NFS 100 & NFS 101	Nutrition, Foods, and Health and Introduction to Nutrition & Food	3.0-4.0
or NFS 220	Normal & Lifespan Nutrition	
NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0
NFS 315	Nutrition in Chronic Disease	4.0
Electives- Select from the following: *		14.0
NFS 202	Nutrition: Wellness and Weight Management	
NFS 205	Introduction to Human Lactation	
NFS 230	Intermediate Nutrition	
NFS 320	Pediatric Nutrition	
NFS 325	Nutrition & Exercise Physiology	
NFS 345	Foods and Nutrition of World Cultures	
NFS 391	Community Nutrition	
NFS T480	Special Topics in Nutrition & Food Science	
Total Credits		**25.0-26.0**

*

The number of elective credits a student must take to complete the minor will vary depending upon which initial course pathway they choose. Students who take NFS 100 and NFS 101 will take 14 credits. Students who complete NFS 220 will take 13 credits.

Minor in Psychiatric Rehabilitation

About the Minor

The minor in Psychiatric Rehabilitation provides students with an understanding of how people with serious mental illnesses learn skills and acquire resources and supports that promote recovery and wellness. This minor appeals to students across a wide range of majors, including human development counseling, health services administration, health science and nursing.

Academic Requirements

The minor requires completion of 24.0 credits, comprised of six required courses and two additional BACS undergraduate courses. Students may elect to begin coursework in this minor at any point during their undergraduate education.

Additional Information

For more information, please visit the Psychiatric Rehabilitation (https://drexel.edu/cnhp/academics/undergraduate/Minor-Psychiatric-Rehabilitation/) minor page.

Program Requirements

Required Courses		
BACS 220	Counseling Theory and Practice	3.0
BACS 236 [WI]	Psychiatric Rehabilitation Principles and Practices	3.0
BACS 320	Crisis and Brief Intervention	3.0
BACS 414	Co-Occurring Disorders	3.0
BACS 420	Psychiatric Rehabilitation Competencies	3.0
Select any three additional BACS 100-499 Courses		9.0
Total Credits		**24.0**

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Minor in Poetry, Biblio and Expressive Writing Facilitation

About the Minor

This minor will offer students an introduction to aspects of poetry, prose, and expressive writing that can contribute to human, health and well-being. Students will learn about different genres of literature, as they relate to the diversity of human developmental experiences, as well as how creative expression can be a resource for resilience and restoration. In addition, students will learn strategies to engage with writing and reading as lifelong skills for self-care and development.

Program Requirements

Required Courses		
BACS 211	Introduction to Poetry Therapy	3.0
BACS 300	Poetry and Biblio Peer Group Facilitation	3.0
BACS 400	Poetry and Biblio Facilitation Fieldwork and Supervision	3.0
Human development, counseling, or psychological development		
BACS 100	Life Span Human Development	3.0

or BACS 232	Ethics and Professional Responsibility	
or BACS 313	Foundations of Art Therapy: Theory and Practice	
PSY 101	General Psychology I	3.0
or PSY 240	Abnormal Psychology	
English and Human psychological development		
WRIT 225 [WI]	Creative Writing	3.0
or WRIT 301	Writing Poetry	
Choose either Certification Eligibility or Non-Certification:		**6.0**
Certification Eligibility		
BACS 403	Poetry and Biblio Facilitation Fieldwork and Supervision II	
BACS 406	Poetry and Biblio Facilitation Fieldwork and Supervision III	
Non-Certification: Select 2 elective courses		
WRIT 200	Language Puzzles and Word Games: Issues in Modern Grammar	
WRIT 215 [WI]	Story Medicine	
WRIT 226	Writing in Public Spaces	
WRIT 301 [WI]	Writing Poetry	
WRIT 303	Writing Humor and Comedy	
WRIT 311	Writing and Reading the Memoir	
WRIT 330	Writing and Contexts	
WRIT T380	Special Topics in Writing	
WRIT 401	Advanced Poetry Workshop	
or WRIT 402	Advanced Fiction Workshop	
Total Credits		**24.0**

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list) at the University Writing Program (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/). (http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Certificate in Food Entrepreneurship

Certificate Level: Undergraduate
Admission Requirements: High School Diploma
Certificate Type: Certificate
Number of Credits to Completion: 19.0
Instructional Delivery: Campus
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible
Classification of Instructional Program (CIP) Code: 12.0509
Standard Occupational Classification (SOC) Code: 11-9051

About the Program

This program prepares undergraduate students to design and launch a new food product or concept from initial consumer research and conceptualization through the development and testing of a value proposition and business model. The certificate can be taken on its own or as an adjunct to degree studies in business, entrepreneurship, nutrition, hospitality or related fields. Both consumer packaged goods and food service offerings are considered.

Program Requirements

CULA 115	Culinary Fundamentals	3.0
ENTP 105	Entrepreneurial Thinking	3.0
ENTP 205	Ready, Set, Fail	3.0
ENTP 440	Launch It!: Early Stage	3.0
FDSC 154	Science of Food and Cooking	4.0
FDSC 350	Experimental Foods: Product Development	3.0
Total Credits		**19.0**

Sample Plan of Study

First Year

Fall	Credits Winter	Credits Spring	Credits
ENTP 105	3.0 CULA 115	3.0 ENTP 440	3.0
FDSC 154	4.0 ENTP 205	3.0 FDSC 350	3.0
	7	**6**	**6**

Total Credits 19

Additional Information

For more information about this certificate, please contact:

Dr. Jonathan Duetsch
215-571-4461
jdeutsch@drexel.edu (https://catalog.drexel.edumalto:jdeutsch@drexel.edu)

Additional information can also be found on the Certificate in Food Entrepreneurship (https://drexel.edu/cnhp/academics/certificates/Certificate-Food-Entrepreneurship/) website.

Certificate in Medical Billing and Coding

Certificate Level: Undergraduate
Admission Requirements: High school transcript or equivalent minimum
Certificate Type: Certificate
Number of Credits to Completion: 30.0
Instructional Delivery: Online
Calendar Type: Quarter
Expected Time to Completion: 1.25 years
Financial Aid Eligibility: Aid eligible
Classification of Instructional Program (CIP) Code: 51.0713
Standard Occupational Classification (SOC) Code: 29-2071

Note: This certificate program is currently not accepting students for the AY2024-25.

About the Program

This online certificate program is designed for those who want to begin medical billing, coding and medical record auditing careers or prepare for certification exams in these areas. Students will learn principles of medical billing and coding related to the four main coding manuals: CPT, ICD-10-CM, ICD-10-PCS and HCPCS. The curriculum covers principles of medical billing and coding for in-patient and outpatient hospitals.

Program Requirements

Required Courses		
Select one option:		6.0
DMBC 120 & DMBC 200	Practical Applications in Electronic Health Records and Practical Applications in Health Care Reimbursement	
HSCI 125 & HSCI 202	Medical Terminology and Regional Anatomy	
DMBC 320	Pathophysiology for Medical Billers and Coders	3.0
DMBC 321	Pharmacology for Medical Billers & Coders	3.0
DMBC 322	Diagnostic Coding I	3.0
DMBC 323	Procedural Coding I	3.0
DMBC 324	Diagnostic Coding II	3.0
DMBC 325	Procedural Coding II	3.0
DMBC 326	Understanding Insurance, Admin & the Law for Med Billers & Coders	3.0
DMBC 327	Virtual Lab for Medical Billers & Coders	3.0
Total Credits		**30.0**

Sample Plan of Study

First Year

Fall	**Credits**	**Winter**	**Credits**	**Spring**	**Credits**	**Summer**	**Credits**
Select one option:	6.0	DMBC 320	3.0	DMBC 322	3.0	DMBC 324	3.0
DMBC 120 & DMBC 200		DMBC 321	3.0	DMBC 323	3.0	DMBC 325	3.0
HSCI 125 & HSCI 202							
	6		**6**		**6**		**6**

Second Year

Fall	**Credits**
DMBC 326	3.0
DMBC 327	3.0
	6

Total Credits 30

Additional Information

For more information, please contact:

Drexel University Online
DUonline@drexel.edu
877-215-0009

Certificate in Medical Billing & Coding for Health Care Professionals

Certificate Level: Undergraduate
Admission Requirements: High school transcript or equivalent minimum
Certificate Type: Certificate
Number of Credits to Completion: 18.0
Instructional Delivery: Online
Calendar Type: Quarter
Expected Time to Completion: 1 years
Financial Aid Eligibility: Not aid eligible
Classification of Instructional Program (CIP) Code: 51.0713
Standard Occupational Classification (SOC) Code: 29-2071

Note: This certificate program is currently not accepting students for AY2024-25.

About the Program

Expertise in medical billing and coding is a necessary skill set for laboratory professionals in today's health care environment. This skill set enables health care professionals to work with laboratory and hospital administrators to determine relevant workload statistics and assign, capture and transmit relevant revenue statistics to hospital administrators and third-party payors. In addition, the medical billing and coding skill set is a recognized asset that will allow health care professionals to create opportunities for advancement in their professional careers.

Admission Requirements

Prerequisite coursework, with grades of C or above, one course of each of the following: Medical Terminology, Anatomy, Patho-physiology and Pharmacology.

Program Requirements

DMBC 322	Diagnostic Coding I	3.0
DMBC 323	Procedural Coding I	3.0
DMBC 324	Diagnostic Coding II	3.0
DMBC 325	Procedural Coding II	3.0
DMBC 326	Understanding Insurance, Admin & the Law for Med Billers & Coders	3.0
DMBC 327	Virtual Lab for Medical Billers & Coders	3.0
Total Credits		**18.0**

Sample Plan of Study

First Year			
Fall	**Credits Winter**	**Credits Spring**	**Credits**
DMBC 322	3.0 DMBC 324	3.0 DMBC 326	3.0
DMBC 323	3.0 DMBC 325	3.0 DMBC 327	3.0
	6	**6**	**6**
Total Credits 18			

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