

**DREXEL UNIVERSITY HEALTH SCIENCES LIBRARIES**

**COLLECTION DEVELOPMENT POLICY**

**JULY, 2007**

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## **INTRODUCTORY STATEMENT**

### **Mission**

The Drexel University Health Sciences Libraries are committed to providing quality information services to support the education, research, and clinical programs of Drexel University's College of Medicine, Nursing and Health Professions, and School of Public Health. The Libraries aim to provide users with a collection of materials, in multiple formats, that reflects their changing needs as well as the dynamic nature of the field of biomedical literature, embracing new technologies in order to serve its clientele most efficiently.

### **Goals/Objectives**

- Support the education, research, clinical programs, and life-long learning needs of its constituents
- Provide properly organized and accessible collections covering relevant subjects in a variety of formats
- Consistently and regularly evaluate the collection and collection development policy to ensure relevance and effectiveness

### **Purpose of the Collection Development Policy**

This Collection Development Policy presents guidelines for the selection of materials, both print and electronic, for the collections of the Drexel University Health Sciences Libraries. It establishes collection priorities, scope, and levels of coverage, to ensure that the information needs of the Libraries' clientele are met in an optimal fashion.

## **UNIVERSITY BACKGROUND AND PATRON GROUP PROFILE**

### **History**

Founded by financier, Anthony J. Drexel in 1891, Drexel University is organized into ten Colleges and three Schools. The Colleges are: Arts and Sciences, Business, Engineering, Information Science and Technology, Law, Medicine, Media Arts and Design, Nursing and Health Professions, Pennoni Honors College, and Professional Studies. The Schools are: Biomedical Engineering, Education, and Public Health. The University enrolls over 18,000 students and confers over 3800 degrees annually.

The Drexel University College of Medicine (DUCOM) was formed by the consolidation of two medical schools: Hahnemann Medical College and Woman's Medical College of Pennsylvania. Established in 1848 and 1850, respectively, they were two of the earliest medical colleges in the United States, and Woman's was the first medical school for women in the nation. DUCOM's enrollment of medical students is over 1,000.

## **Academic Programs**

See appendix, which contains a complete list of programs and schools served by the Health Sciences Libraries.

## **Patrons**

**Primary:** The Drexel University Health Sciences Libraries' primary mission is to support the faculty (including emeritus), staff, and students in the Drexel University College of Medicine (DUCOM), the College of Nursing and Health Professions, and the School of Public Health. The Libraries also provide services to DUCOM residents and fellows, Drexel faculty, staff, and students at the University City Campus, distance learning students, and faculty at clinical affiliated campuses, as well as Friends Hospital and St. Christopher's Hospital residents. Access to the Libraries' holdings and website is available in the libraries and remotely twenty-four hours a day.

**Secondary:** The Libraries also serve as a resource for Drexel alumni, Tenet Hospital staff, visiting professors, residents, fellows, and students from other universities, and the general public. The Libraries have reciprocal borrowing and lending relationships with several local academic institutions. However, access to the Libraries' electronic holdings is not available to these patrons.

**Tertiary:** The Health Sciences Libraries are members of the Middle Atlantic Region of the National Network of Libraries of Medicine. The Hahnemann (Center City) Library serves as a Resource Library for the Middle Atlantic Region. The Libraries' collections are available to other libraries through interlibrary loan. The Hahnemann (Center City) Library participates in Loansome Doc, an interlibrary loan service sponsored by the National Library of Medicine for people who are not affiliated with a library.

## **RESPONSIBILITY FOR COLLECTION DEVELOPMENT**

The Associate Director makes decisions concerning the purchase of monographs and audiovisual materials for the Hahnemann collection. The Site Coordinator at the Queen Lane Library makes comparable recommendations for that collection, which are submitted to the Associate Director for approval. Reference Librarians and other staff are encouraged to contribute purchase suggestions when a need is identified.

Recommendations by faculty, students, and residents are considered and evaluated in light of the collection development policy and the existence of equivalent resources. The Associate Director evaluates gift materials for inclusion in the Libraries' collection. Final approval for serial acquisitions and ultimate responsibility for the Libraries' collection rests with the Director of the Health Sciences Libraries. Selectors are expected to provide alert and active leadership in selecting library materials that anticipate demand and insure currency.

## SUBJECT SCOPE AND COVERAGE

The coverage level definitions utilized by the Drexel University Health Sciences Libraries are based on those that were developed by the Research Libraries Group (RLG) and subsequently adopted by the Association of Research Libraries (ARL):

**Comprehensive-** a collection which contains all works in all languages and all formats in a particular field. Note: the Health Sciences Libraries do not collect in any field at the comprehensive level.

**Research-** a collection which contains the major published source materials required for dissertations and independent research, including specialized reference tools, conference proceedings, professional society publications, government documents, multiple editions of most textbooks and monographs, and an extensive collection of periodicals available in print and electronically. Older or superseded materials may be retained for historical research.

**Study-** a selective collection which is adequate to support undergraduate and most graduate instruction, or sustained independent study within a curriculum, and health care in a hospital or clinical setting; that is, a collection which is adequate to maintain knowledge of a subject required for limited or generalized purposes, of less than research intensity. It includes the major reference tools for the pertinent subject, significant indexing and abstracting services, access to appropriate nonbibliographic databases, a broad selection of major textbooks, monographs, and a wide range of basic periodicals available in print and electronically.

**Basic-** a highly selective collection which serves to introduce and define the subject. It includes a selection of dictionaries, encyclopedias, access to appropriate bibliographic databases, bibliographies, and selected editions of textbooks, monographs, and journals available in print and electronically. A basic information collection is not sufficiently intensive to support any advanced undergraduate or graduate courses or independent study in the subject area involved.

**Minimal-** a subject area in which few selections are made beyond very basic works.

### Drexel University Health Sciences Libraries Subject List and Level of Coverage

Subject	Level
Alternative Medicine	Basic
Anatomy, Human	Study
Anesthesiology	Research
Anthropology	Minimal
Biochemistry	Research
Bioethics	Basic

Biology (General)	Basic
Biology (Molecular)	Research
Blood	Basic
Botany	Minimal
Cardiology	Research
Chemistry	Basic
Communicable Diseases	Research
Communicative Disorders	Minimal
Creative Arts Therapies	Research
Critical Care	Research
Dentistry	Minimal
Dermatology	Research
Diagnosis (General)	Study
Education (General)	Minimal
Embryology	Basic
Emergency Medicine	Research
Endocrinology	Research
Evidence Based Healthcare	Study
Epidemiology	Research
Family Medicine	Research
Family Therapy	Research
Forensic Medicine	Basic
Forensic Science	Research
Gastroenterology	Research
Genetics and Heredity (General)	Research
Genetics and Heredity (Human)	Research
Gerontology and Geriatrics	Basic
Gynecology	Research
Health Care Delivery	Study
Health Professions (General)	Study
Hematology	Research
Histology	Study
History of Medicine	Basic
Hospital Administration	Basic
Immunology	Research
Informatics	Minimal
Laboratory Animal Science	Research
Law (Health Related)	Minimal
Library and Information Science	Minimal
Medical Technology	Minimal
Medicine	Research
Metabolic Diseases	Study
Microbiology	Research

Nephrology	Research
Neurology	Research
Neuroscience	Research
Nursing	Research
Nutrition	Basic
Obstetrics	Research
Occupational Health	Basic
Occupational Therapy	Study
Oncology	Research
Ophthalmology	Research
Optometry	Minimal
Orthopedics	Research
Otolaryngology	Study
Parasitology	Minimal
Pathology (Clinical)	Basic
Pathology	Research
Pediatrics	Research
Pharmacology	Research
Pharmacy and Pharmaceutics	Minimal
Physical Therapy	Research
Physiology (General)	Research
Physiology (Human)	Research
Plastic Surgery	Basic
Preventive Medicine	Study
Psychiatry/Clinical Psychology	Research
Public Health	Research
Pulmonary Disease	Research
Radiation Oncology	Research
Radiological Technology	Study
Radiology	Research
Rehabilitation Medicine	Research
Research Methods	Basic
Rheumatology	Research
Sports Medicine	Basic
Statistics (General)	Basic
Statistics (Health)	Study
Substance Abuse	Research
Surgery	Research
Toxicology	Research
Urology	Research
Veterinary Medicine	Minimal
Virology	Basic
Women's Health	Study

## EVALUATION CRITERIA

The following factors are considered in evaluating possible acquisitions:

- Subject matter
- Appropriateness for the collection, including filling gaps
- Authoritativeness of the author, editor, publisher, and content
- Author's and publisher's reputation
- Currency
- Relevance to the curriculum
- Published reviews
- Faculty, student, and other patrons' requests
- Price
- Author's or editor's affiliation with Drexel University

### Other Parameters

- English language materials purchased, with few exceptions
- Emphasis on current materials
- United States-oriented and/or published materials preferred
- Primary formats: print and electronic, plus multimedia items, such as DVDs, CDs, and videotapes, to support the curriculum
- Generally one copy ordered, unless multiple copies required for the reserve collection

## FORMAT-SPECIFIC GUIDELINES

### Print Collection

#### Books

- **Annual Reports:** Not generally collected
- **Atlases/Maps:** Collected selectively
- **Bibliographic Tools:** Collected selectively
- **Case Histories:** Collected selectively
- **Catalogs:** Not generally collected but may be retained in staff offices
- **Collected Works:** Collected very selectively
- **Conferences/Congresses/Transactions/Symposia:** Collected selectively
- **Consumer Health/Patient Education:** Collected very selectively
- **Directories:** Collected selectively in primarily health-related fields, and very selectively in general reference areas

- **Dissertations/Theses:** One copy of doctoral dissertations and masters theses completed by students in Drexel University’s College of Nursing and Health Professions, School of Public Health, and Drexel University College of Medicine’s School of Biomedical Graduate Studies; non-Drexel University dissertations and theses collected only via an approved request of a library patron; requests for other dissertations and theses filled via Digital Dissertations or interlibrary loan.
- **Examination Guides/Review Books:** Collected for national board and specialty examinations selectively; most are placed on reserve.
- **Government Publications:** Collected selectively
- **Manuals:** Laboratory manuals collected very selectively; workbooks not generally collected.
- **Monographs/Textbooks:** Collected extensively, in accordance with the guidelines outlined in this document
- **Monographs/Textbooks with Appended Computer Disks or CD-ROMs:** Books with accompanying computer material collected using the same evaluation criteria as noted immediately above.
- **Personal Narratives:** Collected selectively
- **Popular Works:** Leisure books—current fiction and non-fiction bestsellers—are available at the Hahnemann Library only; they are not part of the Library’s permanent collection, but are acquired on a rotating basis through a contract with McNaughton Book Service.
- **Reference Works:** Collected selectively, within subject scope, and meeting a defined need; includes a wide variety of reference tools, including almanacs, dictionaries, encyclopedias, guides, statistical (especially health and population) compilations, etc., in the areas of health sciences and general reference.
- **Tests:** Collected selectively
- **Yearbooks:** Yearbooks for Drexel University health science programs, including those under earlier institutional names, are collected.

## Journals

Electronic journals are strongly preferred. For some titles, print versions are retained in addition to or instead of their electronic counterpart if the electronic version fails to offer all of the features provided by the print, or if there is sufficient need for the “browsability” capability rendered by the print copy. A small browsing collection of popular journals is also maintained in print. Criteria for evaluating print subscriptions include:

- Critical subject area
- Faculty recommendation for maintenance of the print title
- Contains features not provided in the electronic version
- “Browsability” factor
- Electronic version is embargoed
- Indexed in a standard source available to patrons—e.g., Medline, CINAHL

- Electronic version unavailable
- Drexel University Health Sciences faculty publish in, or cite, the journal
  - **Magazines:** Magazines for leisure reading are selectively acquired, with retention ranging from three months to one year, depending on the publication.
  - **Newsletters:** Drexel University, including Drexel University College of Medicine, newsletters acquired and retained for a limited period of time.
  - **Newspapers:** Printed newspapers covering national and local interests selected; emphasis is on major newspapers “of record,” such as the *New York Times* and *Philadelphia Inquirer*, that offer current and substantive information. The Libraries will increasingly provide electronic access to newspapers, and these versions should be evaluated in the same manner as are print subscriptions.

### Electronic Collection

- **Electronic Monographs/Reference Tools:** The Libraries will acquire electronic books and other electronic reference tools when available; heavily used materials may be purchased in both print and electronic format. Criteria for evaluating electronic books and reference tools include:
  - Cost
  - Demand
  - Quality of indexing and search capabilities
  - Ease of use
  - Relevance of content to the curriculum, research, and clinical care
  - Technical support needs
  - Training requirements for staff and patrons
  - Comprehensiveness
  - Currency
  - Evaluations by reviewers
  - Licensing restrictions
- **Electronic Journals:** Electronic access to journals will be provided whenever possible, provided the title meets the same evaluation measures as selected print subscriptions. Additional criteria for evaluating new electronic journal subscriptions include:
  - Accessibility of the journal in full-text format
  - Availability of the journal in full-text through an aggregator
  - Cost of the electronic version vs. print
  - Electronic or print indexing in standard databases—e.g., Medline, CINAHL
  - Guaranteed availability of electronic archive
  - Licensing restrictions—e.g. usability for filling interlibrary loan requests

- Percentage of full-text available in the electronic version
  - Potential use of electronic vs. print version
  - Quality of figures and visual images
  - Reliability of access
  - Technical requirements for access
  - Need for a separate “sign on”
  - Ability to link using a static URL
- **Newspapers in Electronic Format:** Electronic access to major newspapers “of record,” including the *New York Times*, *Philadelphia Inquirer*, *Washington Post*, *Wall Street Journal*, and the LexisNexis database.
  - **World Wide Websites:** Access will be provided to websites which present factual information, statistical data, and a database of journals, publications, research papers, images, or a collection of related links. Since websites are often impermanent and transitory in nature, care must be taken to evaluate the reliability and authoritativeness of the source before adding a website link to the Libraries’ electronic resource offerings.

### **Audiovisuals**

- **Sound Recordings/Online Sound Files:** CDs and online sound files that provide streaming audio to support curricular requirements are acquired; patron requests for these materials will be considered if within subject or curricular scope.
- **Video Recordings:** DVDs and videotapes will be acquired to support specific curricular requirements. The preferred format is DVD. Streaming video is a new technology that the Libraries will explore.
- **Slides/Image Databases:** Slides are no longer acquired for the collection. However, the libraries do provide access to electronic image databases—e.g., Access Medicine and images.MD—based on faculty requests and curricular requirements.

### **Computer Software**

Computer software is available for download through Drexel University’s IRT department website. The Libraries will be extremely selective in collecting computer software. Systems staff will be consulted when considering software for purchase.

## **GUIDELINES FOR SELECTING REFERENCE MATERIALS**

Resources are selected for the Libraries’ reference collection in accordance with the principles of the collection development policy previously enumerated. Major factors in considering materials for the reference collection include the currency of the content, the convenience of a having a ready reference tool available, and the need to place items that are frequently referred to in a non-circulating status and area. Reference collection acquisitions include:

- Dictionaries, encyclopedias, handbooks, and manuals
- Indexes/abstracts and bibliographies
- Directories
- Statistical compilations
- Atlases
- Standards

Reference staff is responsible for recommending and reviewing resources for inclusion in the reference collection. The reference collection will be reviewed periodically for removal and/or addition of items. With few exceptions, only the latest edition of a reference tool will be retained in the reference section; older editions will be moved to the circulating collection or withdrawn. Many reference materials are now available electronically, on the Internet; thus, the acquisition of print reference items is curtailed to reflect this trend.

## **GUIDELINES FOR SELECTING FREE WEB-BASED RESOURCES**

There are numerous free web-based resources that contain important and scholarly content that is relevant to the instructional and research programs of Drexel University. Such sites include, but are not limited to, full-text monographs, government documents, handbooks, guides, reports, indexes, directories, and other reference sources. The goal is to identify and organize these resources, and to make them available on the Libraries' website and/or in the Libraries' online catalog. The following are basic guidelines for selecting freely available Internet resources:

- **Selectors:** Health Sciences librarians are responsible for selecting internet resources to be catalogued and/or included in subject guides on the Libraries' website. Faculty, students, and staff may suggest resources to a librarian.
- **Criteria for Selection:** Websites, whether free or subscription based, will be added when the website meets the overall Evaluation Criteria discussed previously in this policy and the applicable criteria established for Electronic Collections, including:
  - The resource must address a subject area that is identified in the Health Sciences Libraries' collection policy.
  - The resource must support curricular or research interests of the Libraries' patrons, or provide information that is useful generally.
  - The resource must comply with the standards of authority, scholarship that apply to all materials required by the Libraries.
  - The resource must appear to be fairly stable, based on its substance, comprehensiveness, timeliness, or evidence of regular updating.
  - The resource must be freely available, without requiring subscription or registration on the part of the user or the Libraries.

- The resource must be accessible using the Libraries' existing systems and capabilities.
- **Approval and Updating Processes:** Approval to add a website must be granted by either the Director or Associate Director of the Health Sciences Libraries. Once approved, submissions will be forwarded to the Technical Services Librarian for cataloging. After a website has been added to the catalog, it is the responsibility of the Health Sciences Librarians to periodically review the resource for updates or de-selection. If a staff member locates a non-working record in the catalog or link on the website, it should be reported to the Technical Services Librarian or to the Associate Director.

## **SELECTION AIDS**

The Health Sciences Librarians rely upon a number of selection aids for choosing quality materials for the Health Sciences Libraries. They include:

- Doody's Book Review service
- Published book reviews
- New book notification slips (primarily with annotations) from book vendors
- Standard lists, including Doody's Core Titles in the Health Sciences
- Publishers' catalogs
- Literature guides
- Subject-specific bibliographies

The Libraries maintain a standing order system for serially published titles of value to the collection. This ensures that these titles are received quickly and routinely. The list of standing orders should be evaluated annually after considering usage and relevance to the collection.

## **COLLECTION MANAGEMENT**

The goal of the Health Sciences Libraries is to maintain a well-balanced, useful, reliable collection to support the information needs of its patrons. The Libraries' collections will be evaluated periodically, making appropriate adjustments as required.

- **Duplicate Copies:** The Libraries will purchase duplicate copies of books and audiovisual materials in accordance with warranted and documented use, expressed need, and available funds.
- **Gifts:** The Libraries encourage donations of gift materials. These donations are a valuable source of new titles, additional copies for heavily used resources, and replacement copies for damaged or missing items. Procedures for handling gifts are outlined below.
  - Acceptance of gift material is at the discretion of the Associate Director, who considers all aspects of the collection development policy, including physical condition of the item, usefulness, collection scope, library space, processing cost, and gift value. Donations are accepted with the understanding that the donation becomes the legal property of the Health Sciences Libraries. Donated materials may be incorporated into the Libraries' collection or disposed of appropriately, at the discretion of the Libraries.
  - Donors are asked to deliver gift materials to the Libraries-- particularly in the case of a large or heavy volume of materials. Gifts will be acknowledged by a card or letter at the request of the donor.
  - Material that is added to the collection becomes an integral part of the Libraries' collection and will be available to all patrons in accordance with the rules and regulations for borrowing. Gifts of special collections that require separate housing or special handling are rarely accepted and must be approved by the Director of the Health Sciences Libraries.
  - Materials not selected for the collection will be offered to library patrons or discarded.
  - Drexel University Health Sciences Libraries staff will not assign value to book donations for a donor's taxes or any other purpose. Appraisal of books is the responsibility of the donor. Acceptance of a gift that has been appraised by a third, disinterested party does not imply endorsement of such appraisal by the Libraries.
  - The acceptance of monetary gifts is at the discretion of the Director of Libraries. Following the gift procedure, funds will be placed on deposit through Drexel University's Office of Institutional Advancement and the Comptroller's Office, to be expended by the Libraries in accordance with the terms of the gift.
- **Preservation:** Repairs to damaged items from the print collection will be handled by Technical Services staff. Items that cannot be repaired may be considered for binding or replacement, particularly if a newer edition is available.
- **Replacements:** Items that cannot be repaired will be evaluated for replacement. Replacement decisions are based on the following criteria:
  - Age of the item

- Usage of the item
- Extent and currency of other titles in the collection on the same subject
- Probability that a new edition will be published shortly

Patrons who have lost or damaged items will be responsible for the cost of a replacement copy, in addition to processing fees. Lost or damaged titles not selected for replacement will be withdrawn from the collection.

- **Resource Sharing:** Drexel University's Hagerty Library constitutes an excellent resource for material in subject areas that are collected at the minimal level for the Health Sciences Libraries, such as biology, chemistry, information science, and physics. In addition, the Hagerty Library also purchases materials that serve to complement the Health Sciences Libraries' collections in subjects like ethics, genetics, nutrition, and psychology. Similarly, the Health Sciences' Libraries collection is a rich resource for Hagerty Library patrons.
- **Retention:** The Libraries are responsible for maintaining a broad collection that meets the needs of the schools, colleges, and clinical sites it serves. The collection is subject to regular review. In general, the Libraries will retain one copy of each edition of a textbook unless additional copies are purchased for reserve or circulation statistics warrant retention of multiple copies. Journals will be retained indefinitely unless space constraints and/or electronic availability make retention unnecessary or redundant. With few exceptions, only the latest edition of a reference tool will be retained in the reference section; older editions will be moved to the circulating collection or withdrawn. The following kinds of materials should be retained:
  - "Classics," those items that are considered valuable for the completeness of the collection
  - Pictorial items, such as atlases of anatomy, containing material that does not become outdated
  - Items relating to local or university history
  - Items by university authors
- **Weeding:** Weeding is necessary to achieve a well-balanced collection. It is particularly important in disciplines like health sciences, where currency is paramount, that weeding be done regularly. Outdated and inaccurate materials should be withdrawn, as should items in poor physical condition and those that are unnecessary to the collection. Ultimate responsibility for weeding decisions rests with the Associate Director; other librarians assist in this process by using professional judgment and knowledge of the current and future needs of the patrons. An effort is made to involve appropriate faculty members as needed. Factors to consider when weeding **books:**

- Age of materials
- Number of previous editions in the collection ( In general, no more than three past editions of a title will be retained.)
- Usage
- Coverage of the subject by other printed and electronic materials in the collection
- Historical value
- Circulation statistics
- Duplication of materials in electronic format
- Physical condition
- Materials with obsolete or incorrect information
- Materials of marginal interest to the Libraries' patrons should be evaluated (particularly if they were obtained free of charge)

Factors to consider when weeding **journals**:

- Availability in electronic format
- Completeness of the holdings and length of the run
- Format and other selection criteria (defined previously)
- Indicators from evaluation tools—e.g., impact factor.
- Local availability elsewhere
- Historical value
- Faculty recommendations
- Subject matter
- Usage
- Physical condition

Factors to consider when weeding **audiovisual materials**:

- Age
- Format—DVD preferred to VHS, CD preferred to cassette
- Local availability elsewhere
- Faculty recommendations
- Subject matter
- Usage
- Physical condition

## **HISTORICAL AND ARCHIVAL COLLECTIONS**

The Health Sciences Libraries do not, in general, collect historical or archival materials. The Libraries do collect theses and dissertations from the academic programs that they serve, as well as yearbooks. Histories in health subject areas are collected as needed to support curricular needs. The major collector of historical and archival materials in the health sciences is Drexel's University's Archives and Special Collections on Women in Medicine and Homeopathy.

## APPENDIX: DREXEL UNIVERSITY COLLEGES, SCHOOLS, AND PROGRAMS

### COLLEGE OF MEDICINE

#### M.D.

- **Year 1-2:** Interdisciplinary Foundations of Medicine (IFM) or Program for Integrated Learning (PIL) program.
  - **IFM:** The IFM curriculum integrates materials from the basic sciences and turns them into modules of three to five weeks in length throughout the year. Additional topics are covered in lectures and group discussions like communication skills, cultural competence, disease prevention, geriatrics, nutrition, occupational and environmental health, professionalism, and women's health.
  - **PIL:** The PIL curriculum has students working with a faculty member in small groups. Students take seven ten-week blocks over their first two years. Topics covered include the basic sciences, behavioral sciences, community medicine, clinical skills, ethics, law, and statistics.
  
- **Year 3:** Required rotations in the following areas:
  - Family Medicine
  - Medicine
  - Obstetrics and Gynecology
  - Pediatrics
  - Psychiatry
  - Surgery
  
- **Year 4:** Pathway program requires both required courses and electives to help students focus on a future residency program. Pathway programs available in the following areas:
  - Anesthesiology
  - Cardiothoracic Surgery
  - Dermatology
  - Emergency Medicine
  - Family Medicine
  - General Professional Education
  - "Generalist" Medicine
  - Medicine (sub-internship required)
  - M.D.-M.B.A.
  - Neurology (clerkship required)
  - Obstetrics and Gynecology

- Ophthalmology
- Oral and Maxillofacial Surgery
- Orthopaedic Surgery
- Otolaryngology/Head and Neck Surgery
- Pathology and Laboratory Medicine
- Pediatrics
- Plastic Surgery
- Psychiatry
- Radiation Oncology
- Radiology
- Research
- Surgery
- Women's Health
- Other electives may be offered.

### **Dual Degrees**

- M.D. / Ph.D.
- M.D. / M.P.H.
- M.D. / M.B.A

### **Residency Programs**

- Anesthesiology
- Cardiothoracic Surgery
- Child & Adolescent Psychiatry
- Dermatology
- Emergency Medicine
- Family Medicine
- Internal Medicine
- Neurology
- Neurosurgery
- Nuclear Medicine
- Obstetrics and Gynecology
- Ophthalmology
- Oral and Maxillofacial Surgery
- Orthopaedic Surgery
- Pathology – Anatomic and Clinical
- Psychiatry- Child & Adolescent, Adult
- Radiation Oncology
- Radiology
- Surgery – General

### **Fellowship Programs**

- Cardiac Electrophysiology
- Cardiothoracic Surgery
- Cardiovascular Disease
- Clinical Neurophysiology – EEG/Epilepsy
- Cytopathology
- Dermatopathology
- EM Fellowships-Medical Toxicology, Emergency Medicine – Pediatrics, Emergency Medicine Ultrasound,
- Emergency Medicine – Pediatrics
- Gastroenterology
- Hematology and Oncology
- Infectious Diseases
- Interventional Cardiology
- Medical Toxicology Fellowship Training Program
- Nephrology
- Neurobiology and Anatomy
- Neuroradiology
- Pediatric Emergency Medicine
- Pulmonary Disease & Critical Care Medicine
- Rheumatology
- Sleep Medicine
- Surgical Critical Care

### **Graduate Studies**

- Biochemistry (M.S. & Ph.D.)
- Microbiology & Immunology (M.S. & Ph.D.)
- Molecular and Cell Biology & Genetics Program (M.S. & Ph.D.)
- Molecular Pathobiology (M.S. & Ph.D.)
- Neuroscience (M.S. & Ph.D.)
- Pharmacology and Physiology (M.S. & Ph.D.)

### **Post-Baccalaureate Pre-Professional Education**

- Interdepartmental Medical Science Program (IMS)
- Master of Medical Science (M.M.S.)
- Medical Science Preparatory (MSP)
- Post-Baccalaureate Premedical Program
- Drexel Pathway to Medical School Program (DPMS Program)
- Master of Forensic Science Program (M.F.S)
- Master of Biological Science (M.B.S)
- Master of Science in Clinical Research Organization & Management (CROM)
- Master of Laboratory Animal Science (MLAS)
- Master of Science in Pathologists' Assistant (PathA)

- Veterinary Medical Science Program (V.M.S.)

### **Basic Science Departments**

- Biochemistry & Molecular Biology
- Microbiology & Immunology
- Neurobiology & Anatomy
- Pharmacology & Physiology

### **Clinical Departments**

- Anesthesiology
- Cardiothoracic Surgery
- Dermatology
- Emergency Medicine
- Family, Community & Preventive Medicine
- Medicine
- Neurology
- Obstetrics & Gynecology
- Ophthalmology
- Orthopaedic Surgery
- Otolaryngology/Head and Neck Surgery
- Pathology & Laboratory Medicine
- Pediatric Neurosurgery
- Pediatrics
- Psychiatry
- Radiation Oncology
- Radiologic Sciences
- Surgery
- University Laboratory Animal Resources

### **Other Educational Opportunities**

- Behavioral Healthcare Education
- Community Outreach Programs
- Continuing Medical Education
- ELAMSM (Executive Leadership in Academic Medicine)
- Medical Humanities
- Mini-Medical School
- Women's Health Education Program

### **Centers**

- Adult Cystic Fibrosis Center

- Center for Molecular Diagnostics & Genome Research
- Center for Study of Hospital-Acquired Infection
- Drexel Autism Center
- Drexel Center for Women's Health
- Drexel Sleep Center
- Memory Disorders Center
- National Institute on Drug Abuse Center of Excellence
- Pathology Diagnostics Laboratory
- Tissue Procurement Facility

### **Institutes**

- Drexel Institute of Biotechnology & Virology Research
- Institute for Molecular Medicine & Infectious Disease
- Institute for Women's Health and Leadership

## **COLLEGE OF NURSING AND HEALTH PROFESSIONS**

### **Undergraduate and Associates Degrees**

- Behavioral and Addictions Counseling Sciences (BACS)
- Cardiovascular Perfusion Technology
- Health Services Administration (B.S.)
- Nursing (ACE), (B.S.N.), (B.S.N.-M.S.N. Dual Degree), (R.N.-B.S.N.)
- Pathway to Health Professions Program (B.S.)
- Radiologic Technology (Associate)

### **Graduate Programs**

- Family Therapy (M.F.T.)
- Couple and Family Therapy (Ph.D.)
- Creative Arts in Therapy (M.A.)-Art, Dance-Movement, and Music
- Doctor of Nursing Practice (DrNP)
- Nurse Anesthesia (M.S.N.)
- Contemporary Nursing Faculty Track (M.S.N.)
- Nurse Practitioner Programs (M.S.N.): In Class & Online
- M.S.N. Completion Program for Women's Health Nurse Practitioners (Online)
- M.S.N. in Clinical Trials Research Track (Online)
- M.S.N. in Innovation and Intra/Entrepreneurship in Advanced Nursing Practice (Online)
- M.S.N. in Clinical Nurse Leader Programs
- B.S.N.-to-DrNP
- R.N.-M.S.N. Bridge Program
- Physician Assistant (PA)

- Advanced Physician Assistant Studies (M.H.S.)
- Professional Doctor of Physical Therapy (D.P.T.)
- Post Professional Doctor of Physical Therapy Program (PPDPT)
- Master's in Health Sciences (M.H.S.)
- Doctor of Philosophy Degree for Physical Therapy & Rehabilitation Sciences (Ph.D.)

### **Certificates**

- Complementary and Integrative Therapies
- Medical Billing and Coding

### **Post-Bachelor's Certificate Programs**

- Clinical Trials Research
- Contemporary Nursing Faculty
- Innovation and Intra/Entrepreneurship in Advanced Nursing Practice
- Leadership in Health Systems Management

### **Post-Master's Certificate Programs**

- Acute Care Nurse Practitioner
- Adult Psychiatric Mental Health Nurse Practitioner
- Contemporary Nursing Faculty
- Couple and Family Therapy
- Innovation and Intra/Entrepreneurship in Advanced Nursing Practice
- Hand-Upper Quarter Rehabilitation

### **Continuing Education**

- Creative Arts Therapy
- Emergency Medical Services
- Nursing
- Physician Assistant
- Rehabilitation Sciences & Physical Therapy

### **Urban Health Initiatives**

11th Street Family Health Services of Drexel University (11th Street) is an integrated, comprehensive partnership between the community, and the faculty, staff and students of Drexel University's College of Nursing and Health Professions located in an area known as the 11th Street Corridor.

## **SCHOOL OF PUBLIC HEALTH**

### **Graduate Programs and Certificates**

- Master of Public Health (M.P.H.)
- Master of Public Health, Executive Program (Executive M.P.H.)
- Doctor of Public Health (DrPH)
- Joint Doctor of Medicine and Master of Public Health (M.D./M.P.H.)
- Certificate in Epidemiology and Biostatistics

### **Departments**

- Community Health and Prevention (CHP)
- Environmental and Occupational Health (EOH)
- Epidemiology and Biostatistics (EB)
- Health Management and Policy (HMP)

### **Centers**

- Center for Health Equality (CHE)
- Center for Public Health Readiness and Communication (CPHRC)
- Center for Academic Public Health Practice
- Philadelphia GROW Project