

Educational Opportunities at Temple University

Deborah B. Nelson, Ph.D.

dnelson@temple.edu

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Educational Opportunities at Temple University

- Master of Science in Clinical Research and Translational Medicine
 - Co-Directors
 - Dr. Henry Parkman and Dr. Deborah Nelson
 - Joint program administered by Departments of Public Health (CHPSW) and School of Medicine
- Master of Science in Epidemiology
 - Director
 - Dr. Deborah Nelson
 - Administered in the Department of Public Health

Master of Science in Clinical Research and Translational Medicine (36 credit hours)

4 Core Courses in the Department of Public Health (12 credit hours)

PH5002 Biostatistics (fall and spring; 3 credits)

PH5201 Epidemiologic Research Methods I (fall; 3 credits)

PH8202 Epidemiologic Research Methods 2 (spring; 3 credits)

PH 8208 SAS Database Management and Analysis (fall; 3 credits)

5 Core Courses in the School of Medicine (9 credits)

MS5001 Bioethics (fall; 1 credit)

MS 8010 Seminars in Clinical Research (spring 1-day; 1 credit)

MS 8020 Critical Review of the Literature (summer I; 2 credits)

MS 8030 Grant writing (summer II; 2 credits)

MS 8351 Recombinant DNA Techniques in Molecular Biology (spring; 3 credits)

3 Elective courses (9 credits)

Research Thesis credits (PH9996): 6 credits in 2 semesters

Master of Science in Clinical Research and Translational Medicine (36 credit hours)

Two graduates of the MSCRTM Program:

Dr. Brian Smith: Surgery Improves Survival among Patients with Intestinal Obstruction

Dr. Matthew Silveira: Examining the Hispanic Paradox in Post-Operative Complication Rates

Four current students enrolled in the MSCRTM Program:

Dr. Catherine Loveland-Jones, Dr. Senthil Jayarahan, Dr. Benjamin Powers, Dr. Victor Kim

Tuition costs:

- CHPSW: \$713 per credit (in-state); \$1001 (out-of-state)
- SOM: \$625 (in-state); \$912 (out-of-state)
- K23 or K07 funding, SOM training grants (Department of Surgery)
- Employee tuition remission for up to 9 credits a semester

Master of Science in Epidemiology

(36 credit hours)

4 Core Courses in Department of Public Health (12 credits)

- PH 5201 Epidemiologic Research Methods I (Fall)
- PH 5001 Foundations of Public Health (Fall, Spring)
- PH 8202 Epidemiologic Research Methods II (Spring)
- PH 8001 Research Methods (Fall)

3 Cognate Epidemiology courses (9 credits)

Social Determinants of Health, HIV Epidemiology, Infectious Disease Epidemiology, Environmental Epidemiology, Maternal and Child Health Seminar, Obesity Seminar, Methods in Community-based Participatory Research, Health Psychology, Health Risk Assessment, Health Policy courses

3 Advanced Quantitative Methods courses (9 credits)

- PH 5002 Biostatistics (Fall, Spring)
- Management and Database Programming
- Multivariate Biostatistics
- Structural Equation Modeling, Systematic Reviews, Multilevel Modeling, Biostatistics Consulting Practicum courses.

Research Thesis credits: 6 credits in 2 semesters

Other Main Campus Degree Programs

Master of Public Health (MPH)

Dual degrees:

DPM-MPH

DMD-MPH

DO-MPH

MD-MPH

MSW-MPH

<http://chpsw.temple.edu/publichealth/degrees-offered/graduate-programs>

PhD in Public Health

<http://chpsw.temple.edu/publichealth/degrees-offered/graduate-programs/phd-public-health>

PhD in Health Ecology

<http://chpsw.temple.edu/publichealth/degrees-offered/graduate-programs/phd-health-ecology>

Research Opportunities at Temple University

Scott K Shore, Ph.D.

sks@temple.edu

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Research at Temple University School of Medicine

Thesis research projects performed in faculty lab in one of eight graduate programs:

Cell biology

Biochemistry

Biomedical neuroscience

Microbiology and immunology

Molecular biology and genetics

Molecular and cellular physiology

Pathology

Pharmacology

Research at Temple University School of Medicine

Restructured graduate education now a single interdisciplinary program
Biomedical Sciences

PhD in Biomedical Science
MS in Biomedical Science

Research at Temple University School of Medicine

Biomedical science graduate program includes 5 research themes or clusters

Cancer Biology and Genetics

Infectious disease and immunity

Molecular and cellular biosciences

Neuroscience

Organ systems and Translational medicine

Graduate faculty will join a primary and secondary cluster consistent with research program focus and expertise

Research at Temple University School of Medicine

First year common curriculum:

- Molecules to cells (6 credits)

- Organ systems (4 credits)

- Scientific communication (1 credit)

- Experimental design and biostatistics (1 credit)

- Bioinformatics (1 credit)

- Scientific integrity (1 credit)

Second year curriculum:

- Advanced cluster-offered

- Seminar

- Journal club

Research at Temple University School of Medicine

Scientific Integrity (MS5001 course directors Drs Duker and Shore)

Course meets the HHS guidelines for the Responsible Conduct of Research as outlined by the Office of Research Integrity:

- Publication practices, responsible authorship and peer review
- Mentor and trainee relationships
- Conflicts on interest
- Data acquisition, sharing and ownership
- Research misconduct
- Protection of human subjects
- Animal welfare
- Contemporary ethical issues in science

<http://grants.nih.gov/grants/guide/notice-files/not-od-10-019.html>