



Thomas
Jefferson
University

Jefferson
College of
Graduate Studies

GRADUATE CERTIFICATE PROGRAMS

Graduate Center for Education and Training
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Philadelphia, PA 19107-6799

GRADUATE CERTIFICATE PROGRAMS



at the

Thomas Jefferson University
Graduate Center for
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Jefferson College of Graduate Studies



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The Graduate Center for Education and Training, Jefferson College of Graduate Studies, Thomas Jefferson University announces training initiatives to provide industry, academic, and health professionals with the skills and knowledge needed for success in today's health-sciences related environments.

The health related industries are projected to continue their steady growth for years to come and with that growth comes the need for highly qualified professionals. In response, the Jefferson College of Graduate Studies, a leader in planning and implementing high quality graduate programs, has developed certificate programs to be offered at times convenient to practicing professionals and focused on growth areas in healthcare industries.

The certificate programs (15 credit hours of graduate course work in specific fields) will improve technical and managerial skills for career advancement or to gain knowledge and skills in new areas for increased career options without interrupting employment. Programs of study are available in the following fields:

- Clinical Research/Trials
- Public Health/Health Systems Research
- Research Management

The certificate programs comprise about one-third of the requirement for a Master of Science degree. They use courses selected from our existing programs in the Jefferson College of Graduate Studies – Master of Science in Biomedical Chemistry, Master of Science in Developmental Biology and Teratology, Master of Science in Microbiology, Master of Science in Pharmacology, and Master of Science in Public Health. As there are fewer course requirements for certificate programs than for degree programs, degree candidates may also pursue certificates as part of their graduate curriculum. Courses within certificate programs must be taken for academic credit and may be applied to appropriate existing Master of Science programs. A cumulative GPA of 3.0 will be required in order to be awarded a certificate. The certificate programs make completing or enhancing a degree or acquiring new skill sets accessible and affordable.

Qualified candidates for certificate programs include:

- Graduates of baccalaureate programs in basic sciences, nursing, health professions, engineering, or business
- Graduates of professional programs (medicine, pharmacy, dentistry, veterinary medicine, law)
- Graduates of doctoral or post-doctoral programs.

APPLICATION PROCESS FOR GRADUATE CERTIFICATE PROGRAMS

Applicants must submit the application form with a \$50.00 non-refundable application fee and the following documents:

- An official college transcript demonstrating completion of a baccalaureate, graduate, or professional degree
- A letter of recommendation from an employer, supervisor, or academic faculty member

Graduate Record Examination (GRE) scores are recommended but not required. Applicants from non-English speaking countries must submit scores from the Test of English as a Foreign Language (TOEFL). Courses completed for a certificate program may later be applied toward a graduate degree program.



CERTIFICATE PROGRAM IN CLINICAL RESEARCH/TRIALS

Qualified professionals are needed for clinical trials positions to meet the needs of rapidly expanding pharmaceutical and biotechnology industries. This program will provide the core competencies and skills needed by professionals in the field of clinical trials. The Program will train individuals in initiation, administration, coordination, and management of clinical research studies for the development of new drugs, clinical products, and treatment regimens.

The objectives of this certificate are:

- To introduce the roles and responsibilities of investigators and sponsors
- To educate about the regulations governing clinical research
- To train for the management of a clinical trial

CORE COURSES

GC 625	Drug Development Issues	2 credits
GC 630	Fundamentals of Clinical Trials	3 credits
GC 635	Fundamentals of Clinical Trial Management	2 credits
GC 660	Statistical Methods of Data Analysis	3 credits
Core Total		10 credits

Select a total of 5 credits from the following *

GC 510	Database Design and Management	2 credits
GC 526	Presentation Skills	2 credits
GC 640	Research Ethics	1 credit
GC 650	Economic Analysis of Healthcare Interventions	3 credits
GC 670	Applied Regression Models	2 credits
GC 720	Scientific Writing	2 credits
Elective Total5 credits
Certificate Total		15 credits

WHO MAY ATTEND

Persons with scientific/medical backgrounds or experience who are interested in careers in clinical research. Persons who may benefit from University study in this program include study coordinators, clinical trial center staff, physicians, medical directors, biomedical scientists, research scientists, nurses and allied health professionals, statisticians, pharmacists, IRB monitors, and others seeking to enhance or develop their clinical and research skills. Pharmaceutical, biotechnology and device industry personnel who desire a career in clinical research may also find this program useful.

* Suggested electives. Other courses may be substituted upon approval.

For information, call Eleanor Gorman at

215-503-5799



CERTIFICATE IN PUBLIC HEALTH/HEALTH SYSTEMS RESEARCH

The broadening of traditional public health efforts to include health promotion and disease prevention has produced a variety of professional opportunities. This program provides core competencies and skills needed by professionals for careers in public health.

The objectives of this certificate option are:

- To introduce the vocabulary, perspectives, techniques, and values of the field of public health
- To provide instruction in the sciences underlying public health – biostatistics and epidemiology
- To develop policy, organizational, and communication skills essential to public health and health systems research

CORE COURSES

GC 660	Statistical Methods of Data Analysis	3 credits
MI 580	Fundamentals of Epidemiology	3 credits
PH 501	Introduction to Public Health	3 credits
Core Total		9 credits

Select a total of 6 credits from the following *

GC 600	Management Skills	3 credits
GC 670	Applied Regression Models	2 credits
PH 502	Behavioral and Social Theories of Public Health	2 credits
PH 505	Environmental and Occupational Toxicology	2 credits
PH 507	Introduction to Environmental Health	3 credits
Elective Total6 credits
Certificate Total		15 credits

WHO MAY ATTEND

Persons with scientific/medical background or experience who are interested in specialized training needed for careers in public health. Persons who may benefit from University study in this program include biomedical scientists, medical fellows, nurses and other health professionals, pharmaceutical or biotechnology professionals, public health organization staff, and mid-career science professionals seeking new career opportunities.

* Suggested electives. Other courses may be substituted upon approval.

www.jefferson.edu/jcgs



CERTIFICATE PROGRAM IN RESEARCH MANAGEMENT

This program is designed for scientists who want to meet the management needs of the rapidly growing biotechnology industry and increasingly competitive academic research environment. In today's market, the successful leader must be both a scientist with superb experimental technique and an executive with outstanding management skills.

The objectives of this certificate are:

- To integrate technical expertise and management skills to advance management practice in all types of laboratories – industrial, government, clinical, commercial, and academic
- To provide skills that enable laboratory managers and other laboratory professionals to meet demands for more productive, responsive, and cost-effective operations

CORE COURSES

GC 600	Management Skills	3 credits
GC 615	Grants Management	2 credits
GC 620	Financial Management	3 credits
PR 530	Biosafety	2 credits
Core Total		10 credits

Select a total of 5 credits from the following *

GC 526	Presentation Skills	2 credits
GC 605	Performance Improvement	3 credits
GC 610	Strategic Management	3 credits
GC 621	Biotechnology Venture Management	2 credits
GC 640	Research Ethics	1 credit
Elective Total5 credits
Certificate Total		15 credits

WHO MAY ATTEND

Novice to moderately experienced research practitioners; individuals who deal with administrative aspects of clinical or basic research; scientific, clinical, or marketing personnel in the pharmaceutical or biotechnology industries. Persons who may benefit from University study in this program include biomedical scientists, medical fellows, nurses and other health professionals, representatives of the pharmaceutical and managed care industries, outcomes researchers, government personnel, and business managers.

* Suggested electives. Other courses may be substituted upon approval.

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