Weill Cornell Medicine
Clinical & Translational Science Center

Clinical & Translational Science Center

A Weill Cornell Medical College Multi-Institutional Consortium with:

Weill Cornell Graduate School of Medical Sciences / New York Presbyterian Hospital / Cornell University, Ithaca / Cornell University Cooperative Extension, New York City / Memorial Sloan-Kettering Cancer Center / Hospital for Special Surgery / Hunter College of the City University of New York / Hunter-Bellevue School of Nursing / Hunter School of Urban Public Health / Hunter Center for Translational and Basic Research / Animal Medical Center / Cornell College of Veterinary Medicine

1300 York Ave, Box 149, New York, NY 10065 • Tel: 646-962-8302 • Fax: 646-962-0534 • www.med.cornell.edu/ctsc

2027 CTSC Career Enhancement Application

The Clinical and Translational Education Program (CTEP) offers the **Career Enhancement (CE) track** to support trainees in meeting self-directed educational goals through enrollment in select didactic courses in clinical and translational science investigation. Trainees earn academic credit and receive a grade on an official Weill Cornell Graduate School transcript. A minimum attendance rate of 80% and completion of all course requirements are mandatory. **Auditing of courses is not permitted.**

Trainees are permitted to register for a **maximum of 5 credits** throughout the duration of their enrollment in the Career Enhancement track. Trainees who wish to pursue additional coursework beyond the Career Enhancement track may do so upon matriculation into either the Advanced Certificate or Master's Degree in Clinical and Translational Investigation Programs.

Please be advised that failure to complete a registered course or withdrawal without prior written notification to the CTSC Education Program office will result in a grade of 'F' on the academic transcript and will render the trainee ineligible for course registration in the subsequent semester.

TO START YOUR APPLICATION PROCESS,
Click here to Initiate a Notification of Intent

Then, to complete your submission please login to the Electronic Protocol Authoring and Review System (ePAR) and refer to the Application Instructions and checklist below

1. Trainee Application Form • **Click on** your current citizenship status to proceed. • Personnel and demographic information. Valid institutional or employer issued email is required. • **Please complete the impact question:** briefly discuss why you wish to enroll as a non-matriculated, CE trainee, and how this opportunity would impact your career development, and if applicable, clinical & translational research goals.	☐
2. Course(s) Requested – check the "Requested?" Box, click on the "Details of Request" link, click on [add/remove] to make your course selection. ○ Use the **Search** tool to find and select the course(s) you wish to enroll. ○ Finalize your request by checking the "This request is finalized" box. **Note:** Trainees may register for a maximum of 5 credits during their Career Enhancement track enrollment. **Course enrollment is subject to approval by the CTSC Education Program and is not guaranteed. If you have previously taken courses through this track, please contact ctsc-education@med.cornell.edu to confirm your remaining credit eligibility.**	☐
3. Required Supporting Documents: Upload as individual PDF files in the order indicated below. ○ **Weill Cornell Graduate School (WCGS) Non-Degree Form:** Click on the [Downloadable Form or Instructions] link, copy, paste Qualtrics link into your browser. Fill out survey. Once survey is completed, save response as a PDF, upload into Supporting Documents. ○ **Career Enhancement Enrollment Contract:** Upload the signed and dated downloadable document as a pdf.	☐ ☐
4. Non-Refundable $175 application processing fee. Payable by Paypal. **Note**: Graduate & Medical students, and individuals who have previously applied as a Career Enhancement student from a Weill Cornell CTSC consortium institution please email ctsc-education@med.cornell.edu before proceeding to make payment.	☐

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Clinical & Translational Investigation Education Program
Spring 2026 Career Enhancement Course Offerings

Core Courses	Instructor (s)	Credits	Dates	Days (Times)	Location
Clinical Trials Design & Analysis CTIV 5006 **Deadline to apply: 12/18/2026**	Glesby Evans	2	Start: 1/7/2027 End: 4/29/2027 **No class 4/22**	Thursdays 3:45p – 5:15p **Wed. 4/21 1:30p-3:00p**	WCM Campus; 1300 York Ave. (Classroom pending)
Introduction to Principles and Practices of Clinical Research & Design CTIV 5044 Co-requisite for CTIV 5006 **Deadline to apply: 12/18/2026**	CTSC eLearning – Imperato-McGinley	1	Start: 1/7/2027 End: 4/29/2027	Online	Online
Intermediate R-Programming CTIV 5056 Biostatistics & Intro to R programming Pre-req. **Deadline to apply & submit Pre-requisite: 12/18/2026**	An	1	Start: 1/7/2027 End: 2/11/2027	Thursdays 3:45p – 5:50p	Campus: 1300 York Ave. Classroom pending
Foundations of Epidemiology CTIV 5013 **Deadline to apply: 12/18/2026**	Du	3	Start: 1/8/2027 End: 4/16/2027 **No Class 2/19 & 3/26**	Fridays 3:45 – 5:00pm Wednesdays *1/13, 2/3, 2/24, 3/10* 3:45pm - 5:00pm	Remote via Zoom
Advanced Statistical Methods for Observational Studies CTIV 5030 Biostatistics or similar course Pre-req. **Deadline to apply & submit Pre-requisite: 01/08/2027**	Andy	2	Start: 1/13/2027 End: 4/14/2027	Wednesdays 3:30p – 5:20p	Fully Remote
Introduction to GPT & LLMs in Clinical & Translational Research CTIV 5057 Introduction to Statistics or similar course Pre-req. **Deadline to apply & submit Pre-requisite: 01/08/2027**	Peng	1	Start: 1/25/2027 End: 4/5/2027 **No Class: 2/15**	Mondays 3:30p—4:45p	Campus: 1300 York Ave. Classroom pending
Data Management in Clinical Research CTIV 5008 **Deadline to apply: 01/08/2027**	Wood Lee	2	Start: 1/25/2027 End: 4/26/2027 **No Class: 2/15**	Mondays 4p – 6p	WCM Campus; 1300 York Ave. (Classroom pending)

Course Descriptions

Clinical Trials design & Analysis: This course will provide an overview of how to design, conduct, and analyze clinical trials. Completion of this course will lead to an understanding of the theoretical and practical aspects of clinical trials related to the strengths and limitations of randomized clinical trials; theoretical and practical aspects of randomization, stratification, and blinding; challenges of designing and implementing single center and multi-center clinical trials; major issues in the analysis of clinical trials; role of clinical trials in the drug development process; and investigator's roles and responsibilities in conducting clinical trials (Co-Requisite: Introduction to Principles and Practices of Clinical Research and Design).

Advanced Statistical Methods

Prerequisites: Biostatistics or similar course

This course will provide trainees with an overview of statistical methods and issues related to the design and analysis of observational studies. Course objectives are as follows: understand the value of observational study design and the background for causal inference; analyze data (using Stata software) with multiple regression analysis to adjust for confounders; introduce observational study design analysis techniques including survival analysis, longitudinal data analysis, and propensity score adjustment methods; application of complex survey analysis and meta-analysis for observational studies (with its reporting standards); and statistical applications for imaging data. Prerequisite: Introduction to Biostatistics or similar course is required prior to enrollment.

Foundations of Epidemiology: This course is designed to train students to analyze and conduct epidemiologic research. Through lectures, classroom discussion, and project-based work, students will: 1. learn the principles of epidemiology, 2. evaluate evidence from epidemiologic studies and, 3. design epidemiologic studies to investigate hypotheses of interest. Students will apply epidemiologic approaches to questions in health-related specialties including clinical medicine, health services and health care management, and nutritional sciences. The course will provide students with the foundation for further work in epidemiology either as practicing epidemiologists or as sophisticated users of epidemiologic information.

Introduction to GPT & LLMs in Clinical and Translational Research

Prerequisites: Introduction to Statistics or similar course

The emergence of Generative AI, exemplified by Generative pre-trained transformers (GPT) and other large language models (LLMs) has the potential to revolutionize research and clinical practice. This course provides students with an understanding of Generative AI, using GPT and other LLMs as examples, and its applications in clinical and translational research. Students will acquire knowledge of natural language processing, generative AI, large language models, and the range of prompting methods available for processing clinical text. Hands-on experience and a toolkit will provide useful skills for managing text data to solve a variety of problems in the health domain.

Data Management in Clinical Research: This course is designed to give participants an understanding of selecting, accessing, and retrieving information from web-based quality information resources for clinical research. They will also learn importance of properly designed data collection instruments to the quality of study results. Participants will be able to differentiate between spreadsheets, desktop databases and server-based databases, as well as learn the pros and cons of each. Students will also learn the definition and fundamental features of a relational database and the structure of Web-based data management systems. Participants will learn importance of securing your data, and the different mechanisms used to achieve this. At the end of this course trainees will gain knowledge of the current government standards related to data sharing, and practices that promote data interchange. They will be taught HIPAA considerations in clinical research data management as well as the importance to clinical research of the medical record, clinical data warehousing, and the use of national standards for data representation.

Intermediate R-programming

Prerequisites: Introduction to Biostatistics & Introduction to R programming

This is an elective course for students seeking to gain intermediate-level skills in the R programming language and environment, with focus on using tidyverse functionality. The course will cover how to perform statistical analyses such as hypothesis testing, regression and model building, and survival analysis. Students must have taken an introductory R course as well as an introductory biostatistics course as we will be covering biostatistical methods only in the context of their application in R. Applications of skills learned in this course are geared towards clinical research, but these skills are transferrable to many projects outside the scope.