



Public Seminars

On-Site Seminars

# Mediation and Moderation Analysis Using PROCESS: A Second Course

A 2-Day Seminar Taught by [Andrew Hayes, Ph.D.](#)

[Read reviews of this seminar](#)

Statistical mediation and moderation analyses are among the most widely used data analysis techniques. Mediation analysis is used to test various intervening mechanisms by which causal effects operate. Moderation analysis is used to examine and explore questions about the contingencies or conditions of an effect, also called "interaction." In many ways, an understanding of the fundamentals of mediation and moderation analysis is in the job description of almost any empirical scholar.

In his recent book, *Introduction to Mediation, Moderation, and Conditional Process Analysis: A Regression-Based Approach*, Andrew Hayes describes these fundamentals using ordinary least squares regression. He also explains how to use PROCESS, a freely-available and handy tool for SPSS and SAS that brings modern approaches to mediation and moderation analysis within convenient reach. This book has become an instant bestseller, and Professor Hayes' [introductory course](#) offered by Statistical Horizons regularly fills to capacity.

This seminar—a "second course"—picks up where the book and the introductory course leave off. After a review of basic principles, it covers material that did not make it into the first edition of the book but will likely appear in a future edition. This material is based on many questions Hayes has received from both veteran scholars and researchers in training, including models with multicategorical predictors, repeated measures designs, and complex models that integrate moderation and mediation components. In this course he also teaches material appearing in recent journal publications, manuscripts in press, and methods still undergoing development. Participants will get the latest release of PROCESS with many new features—before it is released to the public.

## WHO SHOULD ATTEND?

This course will be helpful for researchers in any field—including psychology, sociology, education, business, human development, political science, public health, communication—and others who want to learn how to apply the latest methods in moderation and mediation analysis using readily-available software packages such as SPSS and SAS.

## PREREQUISITES

Because this is a second course, it is assumed that participants have already have been exposed to the fundamentals as discussed in *Introduction to Mediation, Moderation, and Conditional Process Analysis* (Hayes, 2013) either through their own reading or prior coursework, including the *Mediation and Moderation* seminar offered by Statistical Horizons. Some working familiarity with the PROCESS macro for SPSS or SAS is desirable. No knowledge of matrix algebra is required, but participants should have a good grasp of ordinary least squares regression analysis.

[REGISTER NOW](#)

## SEMINAR INFORMATION

Friday, November 13, 2015 9:00 AM –  
Saturday, November 14, 2015 5:00 PM  
(Eastern Time)

Temple University Center City  
1515 Market Street  
Philadelphia, PA 19103

[View Map](#)

## CONTACT INFORMATION

Phone: 610-642-1941

Fax: 419-818-1220

Email: [info@statisticalhorizons.com](mailto:info@statisticalhorizons.com)

## PAYMENT INSTRUCTIONS

The fee of \$995 includes all course materials. The early registration fee of \$895 is available until October 13.

PayPal and all major credit cards are accepted.

Our Tax ID number is 26-4576270.

[REGISTER NOW](#)

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## MATERIALS

Participants receive a bound manual containing detailed lecture notes (with equations and graphics), examples of computer printout, and many other useful features. This book frees participants from the distracting task of note taking.

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## COMPUTING

Because this is a hands-on course, participants are strongly encouraged to bring their own laptops (Mac or Windows) with a recent version of SPSS Statistics (version 19 or later) or SAS (release 9.2 or later) already installed. SPSS users should ensure their installed copy is patched to its latest release. SAS users should ensure that the IML product is part of the installation.

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## LOCATION, FORMAT AND MATERIALS

The seminar meets Friday, November 13 and Saturday, November 14 from 9 to 5 each day with a 1-hour lunch break at [Temple University Center City](#), 1515 Market Street, Philadelphia, PA 19103.

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## REGISTRATION AND LODGING

The fee of \$995 includes all course materials. The early registration fee of \$895 is available until October 13.

### Lodging Reservation Instructions

A block of rooms has been reserved at the [Club Quarters Hotel](#), 1628 Chestnut St., Philadelphia, PA at a nightly rate of \$172 on November 12 and \$147 on November 13 for a Standard room. This hotel is about a 5-minute walk from the seminar location. To register, you must call 203-905-2100 during business hours and identify yourself with Statistical Horizons and give the **group code STH112**. *Please reserve early*. Due to a citywide event, the room block will expire when it is full or on **Monday, October 12, 2015**.

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## OUTLINE

- Review of fundamental principles of mediation and moderation analysis
  - Mediation analysis with repeated measurement of mediators and outcomes
  - Multicategorical causal variables in mediation analysis
  - Estimating and probing interactions involving a multicategorical predictor or moderator
  - A formal test of moderated mediation
  - Moderation in a serial mediation model
  - Moderated mediation in models with multiple mediators and/or moderators
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## COMMENTS FROM RECENT PARTICIPANTS

"After taking Mediation & Moderation last year, I had high expectations of this course. I am glad to say that this second course exceeded my expectations. Information presented was practical and at an appropriate pace given the short timeline. Analyses and methods are cutting-edge. Even for those who may not consider themselves experts when it comes to quantitative methods, the newness of the material and the instructor's enthusiasm can make the learning experience enjoyable."

*Reeshma Haji, Laurentian University*

"The material is presented in a way that anyone can follow regardless of their field of study. I enjoyed the hands on learning, I could even go back to my hotel room and replicate the models using my own data, and easily follow along with the presentation material. Since there is clear step-by-step procedure, I feel confident about doing this myself (and doing it right!)."

*Chad Posick, Georgia Southern University*

"Dr. Hayes provided an excellent insight into mediation modeling and process. This will definitely be helpful for my dissertation."

*Andrea Weinstein*

"This workshop was exactly what I was looking for and needed to utilize the full potential of the Preacher-Hayes statistical analysis package and Andrew's phenomenal PROCESS script."

*Regina Leckie, University of Pittsburgh*

"I had been thinking about a research related problem for more than a month. After this first day of class, I tried relooking at the problem and found the solution. The course is extremely useful to behavioral researchers. The PROCESS model makes the procedure easy to implement even if one is rusty on research methods. I would strongly recommend this course to anyone."

*Pam Mohanty, Governors State University*