

## Regulatory & Scientific Issues of Tobacco Use (CDE582 – Yale School of Public Health)

*This course will provide students with an understanding of nicotine dependence and tobacco addiction and related research methods.*

### Specific Topics Presented:

1. Types of tobacco products, epidemiology of tobacco use, health impact of tobacco use.
2. Training in research methods of tobacco regulatory science.
3. Family Smoking Prevention and Tobacco Control Act and authority of the FDA to regulate tobacco.
4. Measurement of tobacco addiction.
5. WHO Framework Convention on Tobacco Control.
6. The role of public policy on regulation and control of tobacco.
7. The effects of flavorants on palatability, inhalability, and addictiveness.
8. Biomarkers of exposure to nicotine and common additives, implications for FDA regulation.
9. Psychiatric disorder comorbidity with tobacco use.
10. Pregnancy and tobacco use.

### Learning Objectives Include:

*Upon successfully completing this course, students will be able to:*

1. Explain the basic mechanisms of nicotine dependence and tobacco addiction.
2. Select and apply appropriate research methods for the measurement and study of tobacco addiction.
3. Explain concepts relevant to the psychophysiology of addiction, including animal models and the genetics of addiction.
4. Develop research protocols, clinical interventions, and/or public health policies for reducing addiction and for prevention of tobacco uptake.
5. Identify “new generation” tobacco products, including additives, flavors, and e-cigarettes with particular emphasis on the state of regulation of these products.
6. Describe the state of regulation of tobacco products, including the history of regulation of cigarettes and implications for “new generation” tobacco products.

For more information about this course, please contact the course director, [Marney White, Ph.D.](#)