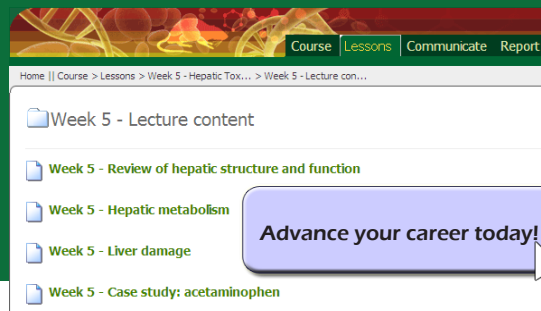


# PHM 840 Safety Pharmacology

Michigan State University

2 credits

[www.phmtox.msu.edu](http://www.phmtox.msu.edu)



## Course Overview

Safety Pharmacology can be defined as the interface of pharmacology and toxicology in the discovery and design of new drugs. Pharmaceutical companies and regulatory agencies use a variety of preclinical studies to investigate the potential undesirable effects of a substance on body functions.

Michigan State University is now offering a course that provides a solid introduction to organ system studies of current experimental models, risk assessment, and regulatory guidelines for evaluating drug candidates in various organ systems.

Students will receive an overview of the processes and procedures of safety pharmacology used, including:

- *in vivo* and *in vitro* experimental models
- data analysis and risk assessment using case studies
- animal welfare concerns
- regulatory guidelines of the U.S., European Union & Japan.

## Requirements

PHM 840 is available to individuals with a pharmacology background (PHM 350 or PHM 819 for example); anatomy and/or physiology is helpful although cardiovascular, gastrointestinal and central nervous system physiology are overviewed in class.

PHM 840 is an online class requiring high speed Internet access.

## Enrollment

Enrollment assistance is available by calling the Pharm/Tox Academic Office at 517/884.0409 or emailing [phm@msu.edu](mailto:phm@msu.edu). Non-MSU students must first apply for Lifelong Education status by completing an application at:

<https://admissions.msu.edu/Apply.asp>

***Class starts January 2009***

**For details, contact the Academic Office at (517) 884-0409 or e-mail [phm@msu.edu](mailto:phm@msu.edu)**