THE UNIVERSITY *of* **MISSISSIPPI**

Phcg 426: Cancer Chemo - Targets and Discovery
MEDICINAL CHEMISTRY

This course provides a general synopsis of the discovery and development of anticancer chemotherapeutics, with particular emphasis on those that are derived from natural products. The course includes discussions of the critical molecular and/or cellular events underlying the etiology and progression of cancer, anticancer target selection and validation, bioassay methods, screening libraries of compounds and/or extracts, bioassay-guided isolation and structure elucidation, and biological characterization/evaluation of active leads. Examples from four focus areas will be studied and discussed: cytotoxic agents, targeted therapies, tumor metabolism, and antimetastasis drug discovery.
2 Credits

Prerequisites

- Phcl 341: Human Physiology and Pathophysiology I $target.descriptions.MinimumGrade$
- Phcl 342: Human Physiology and Pathophysiology I $target.descriptions.MinimumGrade$
- Pre-requisite: Pharmacy PY2

Instruction Type(s)

- Lecture: Lecture for Phcg 426

Subject Areas

- Pharmaceutical Sciences

Related Areas

- Clinical and Industrial Drug Development (MS, PhD)
- Industrial and Physical Pharmacy and Cosmetic Sciences (MS, PhD)
- Medicinal and Pharmaceutical Chemistry
- Natural Products Chemistry and Pharmacognosy (MS, PhD)
- Pharmaceutical Marketing and Management
- Pharmaceutics and Drug Design (MS, PhD)
- Pharmacoeconomics/Pharmaceutical Economics (MS, PhD)
- Pharmacy (PharmD - USA - PharmD, BS/BPharm - Canada)
- Pharmacy Administration and Pharmacy Policy and Regulatory Affairs (MS, PhD)
- Pharmacy, Pharmaceutical Sciences, and Administration, Other