

Phcg 426: Cancer Chemo - Targets and Discovery BIOMOLECULAR SCIENCES

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 Pathophysiology I
- Phcl 342: Human Pathophysiology II
- Pre-requisite: Pharmacy PY2

Instruction Type(s)

• Lecture: Lecture for Phcg 426

Subject Areas

• Pharmaceutical Sciences

Related Areas

- <u>Clinical and Industrial Drug Development (MS, PhD)</u>
- Industrial and Physical Pharmacy and Cosmetic Sciences (MS, PhD)
- Medicinal and Pharmaceutical Chemistry
- <u>Natural Products Chemistry and Pharmacognosy (MS, PhD)</u>
- 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

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.

