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**
- 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