Cancer Biology and Therapeutics Course (GMS 6053, 1 credit hour)  
Fall 2019

Course Directors  
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Course Description  
This course emphasizes the integration of the physiology, pharmacology, chemotherapy, and radiotherapy in the management of cancer.

Time & Location: 9:00 – 11:00 am Tuesdays and Thursdays in R5-231 (ARB Bldg)

Prerequisite  
GMS 6065 or consent of the instructor

Course Format  
Students will be graded on daily participation (10% of grade) and a comprehensive test (90% of grade) given at the end of this course. During the first hour of each session, a faculty member will present an overview of a particular topic area. This will be followed in the second hour by a discussion of a reading assignment (i.e., landmark journal article) related to the topic material presented in the first hour. The course exam will consist of short answer or essay type questions related to the course presentations and reading material.

Schedule for GMS 6053 (class meets 9:00 – 11:00 am Tuesdays and Thursdays)

Tue, Aug 20  Principles of Chemotherapy I: Conventional Chemotherapy (Rowe)  
Thr, Aug 22  Principles of Chemotherapy II: Targeted Therapy (Rowe)  
Tue, Aug 27  Pharmacology of Prostate and Breast Cancer (Rowe)  
Thr, Aug 29  Mechanisms of Drug Resistance (Rowe)  
Tue, Sept 3  Tumor Models in Experimental Cancer Therapy (Siemann)  
Thr, Sept 5  Evaluation of Cytotoxic Cancer Therapies (Siemann)  
Tue, Sept 10  Structure-based Cancer Drug Discovery and Design (Ostrov)  
Thr, Sept 12  Basic Principles of Radiation Therapy (Siemann)  
Tue, Sept 17  Combined Modality Approaches to Treating Cancer (Siemann)  
Thr, Sept 19  Exam