

Winter 2013 Cancer Biology Courses

CB7210 (PHC7210) – Fundamentals of Cancer Biology (3 credits): This team-taught course is intended to introduce the students to the basic principles of neoplastic development and progression. The lectures are organized into three thematic blocks including Cancer development and pathology, mechanisms of cancer development and progression, and principles of cancer prevention and therapy. Prerequisites: IBS7010 and IBS7020. This course is offered every year in the winter semester. **T & TH 2pm – 3:15pm, KCI Prentis Building, Glancy Auditorium in the Basement.**

CB7300 – Special Topics in CB – Biological and Clinical Aspects of Prostate Cancer (3 credits): This team-taught course will educate students in topics of prostate cancer research from both laboratory and clinical perspectives, b. to explain methodologies employed by cancer researchers to study prostate cancer at the molecular, cellular and host level, c. to provide students with an understanding of diagnostic and therapeutic approaches used in prostate cancer, and d. to stimulate students to become translational researchers aimed at bridging the gap between basic and clinical science in the field of prostate cancer.

T & TH 2:30 – 4pm, Scott Hall Pathology Library, Room 9364.

CB7410 (IM7410) – Current Trends in Immunology: T Cell Biology and Cancer Immunotherapy (3 Credits): This team-taught course will discuss cancer immunotherapy based on the molecular mechanisms of T cell development, tolerance and activation. Topics include T cell receptor and co-stimulatory signal-mediated regulation of T cell activation, transcriptional regulation of T cell differentiation, T cell effector function and regulatory mechanisms. Each week will consist of a one-hour lecture and a two-hour discussion for 11 weeks. Each discussion slot is coordinated with the previous lecture topic and is designed for student participation in the form of presentation and discussion of current journal articles. Students are also required to prepare a 5-page research proposal based on NIH format on any topic in the course and to present the proposal to the whole class in the 12th and 13th week. The proposal will be due in the 15th week and peer-reviewed in the 16th week. Prerequisites: IBS7090/IM7010 or equivalent and consent of coordinators. This course is offered winter semester of odd years. **M 10 – 11am, F 10am – 12pm, KCI Prentis Building, 5th Floor Simon Research Library.**

CB7430 – Cancer Epidemiology (2 credits): This course will serve to introduce students to the principal concepts and methods used in cancer epidemiology. The course is intended to educate students on important measures of cancer burden in the United States and worldwide, as well as the major causes of human cancer. As part of the course curriculum, students will be required to review and provide critical appraisal of selected literature in innovative areas of cancer epidemiologic research. Prerequisites: None. However, FPH 7240 "Introduction to Epidemiology" is strongly recommended by the instructor. This course is offered in the winter Semester of odd years. **W 10am – 12pm, 3rd Floor Mid-Med, 87 E. Canfield.**

CB7700 – Recent Developments in Cancer Biology (1 credit): This course is organized in a journal club format and is designed to develop proficiency in critically evaluating original scientific literature, to develop oral and written communication skills, to broaden knowledge of current cancer research, and to provide insight into different research strategies. Each student is expected to participate in class discussions. This course is restricted to students in the Cancer Biology Graduate Program. It is offered each year during the fall and winter semesters and is mandatory for CB students in years 1-4. **M 12:15pm, Glancy Auditorium, Basement of Prentis.**

CB7890 – Seminars in Cancer Biology (1 Credit): This course provides 2nd year and above students, the opportunity to present their dissertation work to their peers. This class not only provides the students with the opportunity to develop their oral presenting skills, but also gives the students a chance to critically evaluate their peers. This course is mandatory for all CB students in all years in the Cancer Biology program, and is offered every fall and winter semester. This course is offered for S and U grades only. **TH 12:00pm, 2nd Floor Wertz Auditorium Hudson-Webber CRC.**

CB7990 – Technologies in Cancer Research (1 credit): This course is designed to expose students to core research technologies at Karmanos Cancer Institute for possible inclusion in the dissertation project. The Animal, Genomics, MICR, Pharmacology, and Proteomics cores will discuss the purpose and functions of their areas, and will demonstrate hands-on techniques wherever appropriate. **M 11am – 12pm, 2nd Floor CB office, KCI Prentis.**