ONCOLOGY (ONCOLOGY)

ONCOLOGY 401 — INTRODUCTION TO EXPERIMENTAL ONCOLOGY
2 credits.
Biological processes associated with and characteristic of neoplasia.
Enroll Info: Biol org chem or cons inst
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2018

ONCOLOGY/MICROBIO 545 — TOPICS IN BIOTECHNOLOGY
1 credit.
Seminars on current topics in agricultural, medical, and industrial biotechnology such as: microbiological production of food, drink, biopharmaceuticals; production methods, genetic engineering (vectors, recombination cloning), continuous fermentation; bioconversion processes and production of chemicals from biomass; plant biotechnology; transgenic animals. Enroll Info: BIOCHEM 501 and GENETICS 466 or equiv
Requisites: None
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2019

ONCOLOGY/M&ENVTOX/MEDICINE/PHM SCI/PHMCOL-M/ POP HLTH 625 — TOXICOLOGY I
3 credits.
Basic principles of toxicology and biochemical mechanisms of toxicity in mammalian species and man. Correlation between morphological and functional changes caused by toxicants in different organs of the body.
Enroll Info: None
Requisites: BIOCHEM 501, PHYSIOL 335, PATH 404 and PHM SCI 401
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Summer 2019

ONCOLOGY/MICROBIO/PL PATH 640 — GENERAL ViroLOGY-MULTIPLICATION OF VIRUSES
3 credits.
Bacterial and animal viruses, their structure, multiplication, and genetics.
Enroll Info: Intro crses in bact, biochem genetics
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2018

ONCOLOGY 673 — PURIFICATION AND CHARACTERIZATION OF PROTEIN AND PROTEIN COMPLEXES
2 credits.
The theory and practice of protein purification. Topics covered include conventional and recent protein fractionation techniques; enzyme assays, handling, and characterization; purification strategy; and overproduction of cloned gene products. The emphasis is on micro and laboratory scale purifications. Enroll Info: Prior coursework in biochemistry and physical chemistry is recommended
Requisites: BIOCHEM 508, CHEM 511 or graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2019

ONCOLOGY 675 — ADVANCED OR SPECIAL TOPICS IN CANCER RESEARCH
1-3 credits.
Enroll Info: None
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Summer 2019

ONCOLOGY 699 — SPECIAL RESEARCH PROBLEMS
1-3 credits.
Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Summer 2019
ONCOLOGY 703 — CARCINOGENESIS AND TUMOR CELL BIOLOGY
3 credits.

Viral, chemical, and physical factors involved in tumor formation in humans and experimental animals; biology and biochemistry of neoplasia, both in vivo and in vitro. Enroll Info: ONCOLOGY 401 or equiv, organic chem, biochem, cell biology, virology, or cons inst.

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2018

ONCOLOGY 715 — ETHICS IN SCIENCE
1 credit.

A review and discussion of the fundamentals of ethical issues in science. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2019

ONCOLOGY 725 — READINGS IN CANCER BIOLOGY
2 credits.

A review and discussion of the current literature on topics related to cancer biology. The emphasis is on the development of skills in data analysis, critical interpretation, and clear writing. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2019

ONCOLOGY 735 — CURRENT PROBLEMS IN CANCER BIOLOGY
2 credits.

The emphasis of this course is on the development of skills in data analysis and interpretation, grant proposal writing, and oral presentation to help prepare students for their Preliminary Exam. Enroll Info: None

Requisites: Declared in Cancer Biology program with second year standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2018

ONCOLOGY 745 — MODELING HUMAN DISEASE IN ANIMALS
1 credit.

Provides a background in the use of animals in the study of human disease and hands-on exposure to common techniques such as tissue collection and processing, surgeries, imaging, and other manipulations. Lectures by basic scientists and clinicians will provide background about each of the organ systems or diseases and the ethics of animal research. Enroll Info: Prior to start of course, completion of online animal safety training. Instructions will be provided after enrollment.

Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

ONCOLOGY 901 — SEMINAR
1 credit.

Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2019

ONCOLOGY 990 — RESEARCH
1-12 credits.

Enroll Info: None

Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Summer 2019