## ONCOLOGY (ONCOLOGY)

### ONCOLOGY 401 — INTRODUCTION TO EXPERIMENTAL ONCOLOGY
2 credits.

Biological processes associated with and characteristic of neoplasia.
**Requisites:** Biol org chem or cons inst
**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 2017

### 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.
**Requisites:** BIOCHEM 501 and GENETICS 466 or equiv
**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 2017

### ONCOLOGY/M&ENVTOX/MEDICINE/PATH/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.
**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
**Repeatable for Credit:** No
**Last Taught:** Fall 2017

### ONCOLOGY/MICROBIO/PL PATH 640 — GENERAL VIROLOGY-MULTIPLICATION OF VIRUSES
3 credits.

Bacterial and animal viruses, their structure, multiplication, and genetics.
**Requisites:** Intro crses in bact, biochem genetics
**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req
**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 2017

### ONCOLOGY 675 — ADVANCED OR SPECIAL TOPICS IN CANCER RESEARCH
1-3 credits.

**Requisites:** Cons inst
**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 2017

### ONCOLOGY 699 — SPECIAL RESEARCH PROBLEMS
1-3 credits.

**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:** Fall 2017

### 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.
**Requisites:** ONCOLOGY 401 or equiv, organic chem, biochem, cell biology, virology, or cons inst.
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement
**Repeatable for Credit:** No
**Last Taught:** Spring 2017

### ONCOLOGY 715 — ETHICS IN SCIENCE
1 credit.

A review and discussion of the fundamentals of ethical issues in science.
**Requisites:** Graduate or professional standing
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement
**Repeatable for Credit:** Yes, unlimited number of completions
**Last Taught:** Spring 2017

### 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.
**Requisites:** Graduate or professional standing
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement
**Repeatable for Credit:** No
**Last Taught:** Spring 2017
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.

**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 2017

ONCOLOGY 901 — SEMINAR
1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

ONCOLOGY 990 — RESEARCH
1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017