

New Courses offered at the Biosecurity Research Institute – Fall 2014

Note: These courses should be taken together in the same semester and will meet for one hour each Monday, Wednesday, and Friday from 1:30 p.m. to 2:20 p.m. in room 1013 of Pat Roberts Hall. Class size is limited to 15 students each semester. Prerequisites include successful completion of at least two life sciences courses.

BIOL 697 Topics in Biology: Essential Practices for BSL-3 Research Settings (1 credit)

This course will offer students an in-depth understanding of standard microbiological practices, principles and techniques necessary to safely and successfully conduct research in a Biosafety Level-3 setting. It is designed for delivery in conjunction with Introduction to High Containment Research Topics and Techniques.

By the end of this course students will be able to:

- Demonstrate essential biocontainment practices for use in BSL-3, ABSL-3, & BSL-3Ag settings
- Demonstrate Standard Microbiological Practices
- Demonstrate skills required to safely work in a biosafety cabinet

BIOL 697 Topics in Biology: Intro to High Containment Research Topics & Techniques (2 credits)

This course examines the rationale behind skills and techniques taught in Essential Practices for BSL-3 Research Settings. Students will gain familiarity with case studies, scientific readings, and laboratory practices. Students review and discuss research papers, topics, and practices related to biological agents and toxins appropriate for research conducted in BSL-3, ABSL-3, and BSL-3Ag facilities.

By the end of this course you will be able to:

- Demonstrate an understanding of risk group classifications and biosafety levels
- Identify potential risks associated with executing standard laboratory techniques
- Evaluate published studies and identify alternative but realistic approaches, practices, or techniques
- Identify, select, and defend high containment practices required when manipulating agents and toxins

Contact John Webster at the BRI for more information. johnwebster@bri.ksu.edu