Biology 292: Cell culture techniques SLO’s

At the end of the course students should be able to

Interpret and follow OSHA standards relating to universal precautions in the laboratory

Independently produce and maintain cell cultures

Maintain, feed, harvest and analyze mammalian cell cultures

Perform viability counts on cultured cells

Demonstrate proper use of inverted, compound, and phase microscopes, micrometers, hemocytometers, hoods and incubators

Demonstrate the ability to produce and sterilize media for cell culture

Keep a lab notebook and related documentation in accordance with standards of industry

Produce and present statistical analysis of data in a scientific report and poster presentation

Grading rubric:

Lecture: 40%

2 lecture midterm’s 10% each

Laboratory: 60%

Practical and written quizzes 10%

Week’s 16-18 practical experiments 20%

Includes 15% for laboratory notebook

30% comprehensive essay final