BIOL 364

Term: Fall 2016  
Course No. & Section: BIOL 364-01

Course Title: CELL CULTURE LAB  
Professor: DR. DEEPA DABIR

Course Description:

Objectives:
- This laboratory course introduces students to eukaryotic cell culture techniques and applications

Content:
Students will have hands on experience in culturing mammalian cells. They will be familiarized with aseptic technique, preparation and use of cell culture media, cell counting and propagation of cell lines such as HeLA, HEK and LAN-5 cells. Following basic cell culturing methodology, more advanced techniques such as GFP – transfections, immunofluorescence staining, subcellular fractionations, apoptotic assays and proteasome activity assays will also be performed.

Prerequisites/Recommended Background:
- BIOL 201
- BIOL 202
- An undergraduate course in Molecular Biology or Biochemistry is also recommended

Required Texts/References:
- No text required

Course Work/Expectations:
- 4 hours laboratory work each week
- Students are expected to write formal laboratory reports at the end of each experiment
- There will also be assignments/ worksheets given during each laboratory session
- Students are assessed based on their performance during each laboratory session and laboratory reports/ assignments

Comments:
- This course has a WRITING FLAG