TENTATIVE SCHEDULE

**PCB4024L Cell Biology and Physiology Lab**

**Wednesday 12:30 to 2:30 or 2:45 to 4:45**

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| **DATE** | **LECTURE TOPIC** | **READING** | **Notes** |
| Jan. 13th | Introduction/Lab Equipment |  | Paper work |
| Jan. 20th | Basic Microscope and Fluorescents Fluorescence with various cell cultures |  | Onion/check/cell cultures |
| Jan. 27st | Aseptic Technique | Watch Videos |  |
| Feb. 3rd | Aseptic Technique | Watch Videos |  |
| Feb. 10th | Thawing Cell | Watch Videos |  |
| Feb. 17th | Counting and Viability | Watch Videos |  |
| Feb. 24th | Maintenance of Cell Cultures |  |  |
| Mar. 2nd | Cryopreserving Cultured Cells/ |  |  |
| Mar. 9th | Independent Project start |  |  |
| Mar. 16th | Spring Break |  |  |
| Mar. 23rd | Independent project |  |  |
| Mar. 30th | Independent project |  |  |
| Apr. 6th | Independent project |  |  |
| Apr. 13th | Independent project |  |  |
| Apr. 20th | Presentations |  |  |

**PROFESSOR**: Dr. Steven Hammer

**OFFICE**: N-213

Office hours posted on office door or by appointment

**PHONE:** (772) 462-7181

**E-MAIL:** shammer@irsc.edu

**Web Site:** <http://faculty.irsc.edu/faculty/shammer/>

**Class notes and presentation will be found here under course material**

**TEXTS:**

* **Lab Note Book (any composition bound type notebook)**
* **Handouts for each lab will be supplied**
* **Suggested: Culture of Animal Cells :** A Manual of Basic Technique and Specialized Applications by Freshney R and R. Ian Freshney (2010, Hardcover)

Format: Trade Cloth ISBN-10: 0470528125 ISBN-13: 9780470528129

Publisher: Wiley & Sons, Incorporated, John796 pages

Edition: 6th

**Assignments: Videos**

<http://www.invitrogen.com/site/us/en/home/References/gibco-cell-culture-basics.html>

**Grades**:

1. Experiments (50 points each, 500points)
2. Presentation (100 points)

A: 90 - 100

B: 80 - 89

C: 70 - 79

D: 60 - 69

F: Below 60

**W-**-deadline is March 23rd, 2016

**I**--if passing but emergency prevents taking the last exams

\*\*\***MAKE-UP POLICY**: Grades in lab are based on lab work and final presentation. There is only one lab per week so there is no way to make up most of the labs. The final presentations will be the final week of class so there is no way to make up the presentations. If you miss a lab or the presentation your only option is to receive the grade you earn or take an incomplete and finish the next semester.

**DRESS:** Proper lab dress: Closed-toed and closed-heeled shoes, long pants, if long sleeves are worn they should fit tight to the wrists and be free of ruffles, lab coat (disposable coats can be purchased at the bookstore), long hair should be pulled back neatly, and latex/nitrile gloves.

**ATTENDANCE:** Students are expected to be prepared and present in classes. Each should be responsible for the material covered in each session and know the arrangements for tests since schedule above is tentative.

**EXTRA CREDIT PROJECTS**: No extra credit projects will be accepted.

**CHEATING:** Cheating of any kind **will not** be tolerated by the Science Department at IRSC. Anyone caught cheating will receive an immediate "F" for the COURSE (no withdrawal possible). Anyone witnessing this inexcusable behavior, who does not report it, will also be considered to be guilty of improper conduct.

**At the completion of the course, the student will be able to:**

* Perform various lab techniques specific to the study of Cell Biology
* Have a working knowledge of various lab techniques in Cell and Molecular biology. Use this knowledge to formulate a novel research project, performing the specific techniques needed to collect data and complete the project by creating a formal research report and or presentation.

If you are experiencing difficulty in your course, your first obligation is to work directly with your instructor to resolve the issue. If you are unable to settle your concerns with the assistance of your instructor, you can contact the Department Chair (Sherry Bowen, [sbowen@irsc.edu](mailto:sbowen@irsc.edu), 7724627502), who will assist you or advise you about contacting the Academic Dean (Dr. Horton, [phorton@irsc.edu](mailto:phorton@irsc.edu), 7724627693) or Vice President (Dr. Iacono, [aiacono@irsc.edu](mailto:aiacono@irsc.edu), 7724627215).