TENTATIVE SCHEDULE

**PCB4024 Cell Biology and Physiology**

**Monday and Wednesday 11:00 to 12:15**

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| **Week of** | **LECTURE TOPIC** | **READING** |
| August 22nd | Visualizing, Fractionating, and Culturing Cells | Chapter 9 (4) |
| August 29th | Biomembrane Structure | Chapter 10 (7) |
| September 5th  **No Class Monday** | Transmembrane Transport of ions and small molecules | Chapter 11 |
| September 12th | **Test # 1 (9-11)**  Cellular Energetics | Chapter 12 |
| September 19th | Moving Proteins into membranes and Organelles | Chapter 13 |
| September 26th | Vesicular Traffic, Secretion, and Endocytosis | Chapter 14 |
| October 3rd | **Test # 2 (12-14)**  Cell-Signaling I | Chapter 15 |
| October 10th | Cell-Signaling II | Chapter 16 |
| October 17th | **Presentations** |  |
| October 24th | **Cell Signaling Test**  **Chapters 15, 16 and presentations** |  |
| October 31st | Cell Organization and Movement I | Chapter 17 |
| November 7th |  |  |
| November 14th | Cell Organization and Movement II | Chapter 18 |
| November 21st | Integrating Cells into Tissues | Chapter 19 |
| November 28th | **Final (Comprehensive** | Chapter 9-19 |

**PROFESSOR**: Dr. Steven Hammer

**OFFICE**: N-213

Office hours posted on office door or by appointment

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

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

**TEXTS: Molecular Cell Biology 8th ed.**, Lodish, W.H. Freeman and Company

ISBN-10: 1-4641-8339-2; ISBN-13: 978-1-4641-8339-3

**Grades**:

1. Review Concepts and Analyze the Data for each chapter Found at the end of each chapter (10 points per chapter, 110 points)
2. Test 1 (100 Points)
3. Test 2 (100 Points)
4. Cell Signaling Test (50 Points)
5. Final Comprehensive (100 points)

A: 90 - 100

B: 80 - 89

C: 70 - 79

D: 60 - 69

F: Below 60

**W-**-deadline is October 31st, 2016

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

\*\*\***MAKE-UP POLICY**: If a student has a legitimate conflict, he or she may arrange to

take the exam BEFORE class. If a student misses one exam because of an

unavoidable absence due to illness, emergency, or other reasons, he/she **MUST**

Contact the instructor **within 24 hours** of the missed exam period. **Essay make-**

**up exams** will be taken within 1 week of the test date. Make-up

exams will be 10 essay questions. Students who do not adhere to the make-up

policy will not be given the opportunity to take a make-up exam. They will

receive a zero for the missed exam.

**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 assignment and possibly the COURSE (no withdrawal possible).

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

* **Describe the processes involved in culturing, visualizing and working with various cell types.**
* **Describe the structure and function of plasma membrane**
* **Describe how molecules move in and out of the cell**
* **Have an understanding of how cellular energetics applies to working with cells and the implications of these biochemical processes**
* **Describe how proteins are moved around the cell**
* **Describe how external signals exert effects inside the cell including the control of gene expression**
* **Describe cellular organizations and movement**
* **Describe the cell cycle**

# Online access:?

Dear Students,

The online portion of our course is open for student registration.

To register for the course go to:   
<http://www.macmillanhighered.com/launchpad/lodish7e/3915207>

PLEASE bookmark the page to make it easy to return to.

You have three options to enroll in the course: you can purchase direct access, you can buy an access code, or you can get free 21 day access while deciding.

To navigate and start using LaunchPad please consult the [Get Started guide](http://cmg.screenstepslive.com/s/MacmillanMedia_StudentHelp/m/LaunchPadSM) and/or[view this video](https://youtu.be/2crYAsqb7P0).

If you have problems registering, purchasing, or logging in, please contact Customer Support. You can reach a representative 24 hours a day, 7 days a week:

* through the [online form](http://support.bfwpub.com/supportform/form.php?View=contact)
* by [chat](https://macmillan.desk.com/customer/widget/chats/new)

Or by phone at (800) 936-6899:

* Monday through Thursday 8:00 a.m. to 3:00 a.m.
* Friday 8:00 a.m. to 12:00 a.m.
* Saturday 12:00 p.m. to 8:00 p.m.
* Sunday 12:00 a.m. to 3:00 a.m.

Looking forward to seeing you in class!

Dr. Steven Hammer

**Assignments (typed, hand written will not be accepted)**

**Due before the start of the class following the chapter presentation, late assignments not accepted. Duplicate answers will be considered cheating and both papers will receive a (0).**

**Chapter 9 (4): Concepts 1-11**

**Data a-d**

**Chapter 10 (7): Concepts 1-13**

**Data a-c**

**Chapter 11: Concepts 1-13**

**Data a-c**

**Chapter 12: Concepts 1-17**

**Data a-d**

**Chapter 13: Concepts 1-15**

**Data a-d**

**Chapter 14: Concepts 1-13**

**Data a-d**

**Chapter 15: Concepts 1-15**

**Data a-c**

**Chapter 16: Concepts 1-15**

**Data a and b**

**Chapter 17: Concepts 1-16**

**Data a-c**

**Chapter 18: Concepts 1-15**

**Data a-d**

**Chapter 19: Concepts 1-14**

**Data a-d**

**Students with Disabilities:** In compliance with the Rehabilitation Act of 1973, Section 504, and the Americans with Disabilities Act of 1990, professional disability specialists and support staff at the Student Disability Services (SDS) facilitate a comprehensive range of academic support services and accommodations for qualified students with disabilities. IRSC offers many disability resources at on-campus labs.  Students who wish to request an accommodation for a documented disability should contact the SDS at 772-462-7782 or 772-462-7808.

**Non-Discrimination and Non-Harassment Policy:** Indian River State College (College) is committed to maintaining a fair and respectful employment and educational environment. In accordance with federal, state and local equal opportunity laws, Indian River State College prohibits discrimination on the basis of race, color, national origin, ethnicity, sex, religion, age, disability, sexual orientation, marital status, veteran status, or genetic information.

**Statement to Students:** 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 (Dr. Capers, 462-7502, [jcapers@irsc.edu](mailto:jcapers@irsc.edu)), who will assist you or advise you about contacting the Academic Dean (Dr. Paul Horton, 462-7503)