Syllabus

Course Description

Laboratory experience with modern methods in cell biology. Culture of live cells, microscopy, and independent experiments are emphasized.

Credit Hours: 2
Prerequisite(s): Credit or concurrent registration in BIOS 222.
Laboratory: Science and Engineering Laboratories-East (SELE), Room 4084

Course Objectives

- Learn how to operate brightfield, phase-contrast, and fluorescence microscopes.
- Become proficient at several modern cell biology techniques: SDS-PAGE, Bradford assay, ELISA, immunostaining, cell culture.
- Prepare professional data figures using Microsoft Office and image editing software.
- Maintain a proper scientific notebook, analyze and interpret data.
- Write short scientific reports in grammatically-correct English with proper format and tone.
- Develop and carry out an independent experiment.
- Write a formal laboratory report analyzing data and conclusions from an independent experiment.

Staff Information

Teaching Assistants:

<table>
<thead>
<tr>
<th>Last</th>
<th>First</th>
<th>email</th>
<th>CRN</th>
<th>Class Meeting time</th>
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<tbody>
<tr>
<td>Chen</td>
<td>Chih-Wei</td>
<td><a href="mailto:cchen234@uic.edu">cchen234@uic.edu</a></td>
<td>36483</td>
<td>T 8-11:50</td>
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<tr>
<td>Clare</td>
<td>Guliz</td>
<td><a href="mailto:gotkir2@uic.edu">gotkir2@uic.edu</a></td>
<td>33789</td>
<td>T 1-4:50</td>
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<tr>
<td>Jiang</td>
<td>Zhongjiao</td>
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<td>39768</td>
<td>F 12-3:50</td>
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<tr>
<td>Kozlova</td>
<td>Alena</td>
<td><a href="mailto:akozlo7@uic.edu">akozlo7@uic.edu</a></td>
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<tr>
<td>Perez</td>
<td>Lillian</td>
<td><a href="mailto:perez36@uic.edu">perez36@uic.edu</a></td>
<td>23153</td>
<td>R 8-11:50</td>
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<tr>
<td>Pers</td>
<td>Dan</td>
<td><a href="mailto:dpers3@uic.edu">dpers3@uic.edu</a></td>
<td>23151</td>
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<td>Rebiai</td>
<td>Rima</td>
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<td>Seema</td>
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<td>34971</td>
<td>R 3:00-6:50</td>
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Coordinator:
Andrea McGinley, Ph.D.
E-mail: amario3@uic.edu
Office: SEL Room 4277
Office Hours: Wednesdays 12:00pm – 3:00pm; Thursdays 1:00pm – 3:00 pm

Blackboard

http://blackboard.uic.edu

Announcements will be e-mailed to you and posted on Blackboard. It is your responsibility to verify the proper functioning of your UIC email address and check Blackboard regularly.

Required Course Materials

- There is no required textbook for the course. Lab handouts will be posted to Blackboard in advance of the lab session; you are responsible for printing these materials and bringing them to class with you.

- It is required that you bring your own Black Sharpie marker pens (Fine Point) to every lab session. You will also need a carbon-copy lab notebook for recording data.
Course Requirements

Quizzes 100 points
Lab Notebook Pages (12 @ 5pts ea) 60 points
Laboratory Reports 200 points
Experiment Proposal 40 points
Independent Project report 100 points
Practical Examination 100 points

TOTAL 600 points

Course Grades

Percentage Range Letter Grade
90 – 100 % A
80 – 89 % B
70 – 79 % C
60 – 69 % D
< 60 % F

At the end of the semester each section’s average will be adjusted upwards to 75%. This is the curve. Your grade can only increase as a result of the curve, it will not be lowered. If the average is already at or above 75%, no curve will be added.

Expectations of Students

Academic Integrity

• Any act of academic dishonesty will be punished severely. These acts include but are not limited to falsification of data, plagiarism of published materials, copying of another student’s work (from this or any other semester), and cheating on quizzes or exams. The UIC Guidelines Regarding Academic Integrity may be found at http://www.uic.edu/ucat/catalog/GR.shtml#qa

Students with Disabilities

Students with disabilities who require accommodation for access and participation in this course should contact the coordinator as soon as possible after the start of the semester. All such students must contact the UIC Disability Resource Center, obtain a Letter of Accommodation (LOA), and submit your LOA to the course coordinator. Appropriate
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Accommodations can then be arranged to support you. Check [http://drc.uic.edu/](http://drc.uic.edu/) or call 312-413-2183 for more information.

**Attendance and Quizzes**

- You must attend the lab section for which you are registered. There are no make-up labs; do not assume that it is ok for you to miss lab due to travel plans.

- Pre-lab quizzes are given daily beginning the 2nd week of class. Therefore, you must come prepared for every lab. Each quiz will consist of 10 points worth of questions.

- Quizzes are distributed at the beginning of your lab section and are collected after 15 minutes. If you miss a quiz because of tardiness or absence, you will receive zero (0) points for that quiz. There are no make-up quizzes – quiz grades will be dropped so that your ten highest quizzes are counted.

- You are expected to know the names and proper spelling of the answers to the quiz questions. Each of your quiz answers must sound the same as the actual answer when pronounced out loud. If your answer does not sound the same when pronounced out loud, you will not receive credit for your answer.

**Laboratory Reports and Lab Notebook Page Submissions**

- Laboratory Reports will be collected as indicated on the Lab Schedule. Some of these reports will be completed during lab and turned in at the end of class; others will require you to complete them at home and submit them online via Blackboard. Laboratory Reports will comprise a total of 200 points/600 of your grade.

- Assignments due in class will be considered late if submitted any later than the end of your scheduled lab section. The grade you earn will be penalized by 5% for each business day that an assignment is late beginning with the day that the assignment is due.

- If you need to submit an assignment after your lab section has ended for the day, you should bring it to the course coordinator’s office (SEL 4277). If the coordinator is not there, give your paper to the TA inside the lab. They will sign and date the paper and leave it for your TA. You must have someone verify the date and time of your submission. No papers will be accepted outside of normal lab hours – if the lab is closed, you will need to wait until the lab reopens to turn in your assignment.
University of Illinois at Chicago
Department of Biological Sciences
BIOS 223: Cell Biology Laboratory

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- Do not email your assignments to your teaching assistant or to the course coordinator. Do not leave your assignments under the door – they will be discarded.

- You will be required to submit your carbon-copy lab notebook pages at the end of every period. These are worth 5 points each. During the first two weeks, notes taken on regular paper are accepted. After that you must take your lab notes using your own carbon-copy lab notebook.

Practical Examination

- A cumulative practical examination will be given in the last lab meeting as indicated on the Lab Schedule. This exam will cover techniques you used during the semester, data interpretation, and short experimental manipulations.

- Additional information regarding the examination will be posted on Blackboard.

- If you miss the practical examination, you will be assigned a grade of INCOMPLETE ONLY IF YOU 1) contact the course coordinator and 2) provide proof of a valid excuse. Otherwise, you will receive zero (0) points for the final exam.