**BCH 404 Advanced Topics in Biochemistry Spring ’15**

**Syllabus and Course Information**

**Dr. Gail Willsky - Course Coordinator** (gwillsky@buffalo.edu, tel: 829-2969)
Through Exam 1 contact Michael Buck (mj buck@buffalo.edu), tel: 881-7569

**Course Objectives:** This course is designed to expand your knowledge of Biochemistry beyond the basic survey course (BCH 403) in five areas of Biochemistry and train you to learn from the scientific literature. BCH 404 will build upon the knowledge accumulated in BCH 403 and the ability to read research papers learned in BCH 401. Some BCH 404 course material will be presented only as literature papers and students will learn how to present journal articles.

**Course Time and Location:** W and F - 1:00 PM to 2:30 PM in 136 Farber Hall.

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<tr>
<th>SEC.</th>
<th>DATE</th>
<th>INSTRUCTOR</th>
<th>TOPIC</th>
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<tbody>
<tr>
<td>Intro</td>
<td>1/28</td>
<td>Dr. M. Buck</td>
<td>Introduction to Course</td>
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<tr>
<td>1</td>
<td>1/30 - 2/13</td>
<td>Dr. M. Buck</td>
<td>Control of Gene Expression</td>
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<td>2/18 to 3/4</td>
<td>Dr. S. Sinha</td>
<td>Stem Cells</td>
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**EXAM 1 3/6**

3    | 3/11 - 3/13| Dr. N. Nowak | Genomics                                   |
3/18 - 3/20                  | Spring Break |
3/25 – 4/1                   | Dr. Nowak    |
4    | 4/3 to 4/17| Dr. J. Surtees| DNA Repair and Replication                 |
5    | 4/22 – 5/6 | Dr. G. Willsky| Glucose Transport and vesicle trafficking  |

**EXAM 2 5/8**

Covering Sections 3 -5. Take home exam.

**Section Organization:** Each 5 session block will include 3 lectures based on reading material from the book and simple journal article(s), usually a review; one faculty led discussion of a paper; and one presentation of a paper by two or three students on the last day of each section. Each faculty member will arrange for reading assignments and a problem set of sample exam questions to be given out at the last meeting of the previous section. Articles and other information will be available on Blackboard.

**Grading:**

- 50% - exams (10% for each Section). The instructor will let you know the exam format for each section. Exams will either be a combination of in class and take home sections or all take home. **For take home exams students may consult all sources EXCEPT other student exams. In cases of cheating sanctions will be taken against both the student who copied from an exam and the student whose exam was copied.**
- 15% - individual student presentation (each student does one),
- 20% - overall participation (4% per Section), and
- 15% - evaluation of whether the students have read the papers that are being presented by other students (3% per section). Participation can be graded by quizzes, asking students to hand in questions on those papers before the class, use of discussion board in UB Learns etc. Each instructor will decide for their section how participation will be graded. STUDENTS ARE ALLOWED TWO UNEXCUSED ABSENCES. FOR EACH ABSENCE AFTER THAT 1/2 grade will be subtracted from the final grade.

**EXAMS:** All exams will be handed out on a Friday at the normal start of class time and due the following Monday in the Biochemistry Office by 4:30 PM. You must give them to a person.