**BIOCHEMISTRY 4H03**  
**DRUG DISCOVERY and Biotechnology**  
**TERM 1 (2011)**

**Instructor:** Dr Nathan Magarvey, MDCL-2320  
**Teaching Assistants:** Ashraf Ibrahim (MDCL 2310)  
Soumaya Zlitini (MDCL 2313)

**Class schedule:**  
Tuesday (3:30-4:20 am), MDCL 2232  
Wednesday (3:30-9:20 am), HSC 1A6  
Friday (3:30-4:20) MDCL 2232

**Summary**  
The course will focus on the fundamentals, paradigms and processes of modern day pharmaceutical discovery research. The overriding goal of the course is to revisit the fundamentals of biochemistry in context of real and practical problems of biomedical research and modern drug discovery. Content will be in 2 parts, lecture format and group inquiry:

**(i) Lectures in modern drug discovery.**  
An introduction of the principles and paradigms of modern drug discovery.

**(ii) Group inquiry of a therapeutic area and proposal for an R&D strategy.**  
Principles highlighted in the lecture component will be reinforced by group study of an assigned therapeutic area. The outcome of this work will be a group proposal for the discovery of a new chemical entity for an assigned therapeutic area. Here the students will hone skills in group inquiry, attend tutorial sessions with the instructors to develop their ideas and present their proposals as both a written report and in seminar format.

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**Evaluation**  

<table>
<thead>
<tr>
<th>Test</th>
<th>Due Date</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Test 1 (individual mark)</td>
<td>October 28</td>
<td>25 %</td>
</tr>
<tr>
<td>Log books (individual mark)</td>
<td>Tutorial sessions I and II</td>
<td>10 %</td>
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<tr>
<td>Progress meetings (group mark)</td>
<td>Tutorial sessions I and II</td>
<td>10 %</td>
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<tr>
<td>Presentations (group mark)</td>
<td>See attachment</td>
<td>30 %</td>
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<tr>
<td>Test 2 (individual mark)</td>
<td>December 2</td>
<td>15 %</td>
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<tr>
<td>Commentary (individual mark)</td>
<td>December 2</td>
<td>10 %</td>
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</tbody>
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**Notes:** Group evaluations will be taken into account when evaluating group work components. The course facilitators reserve the right to adjust marks accordingly. Also marks will be posted on Learnlink with student numbers. By attending this class, you are agreeing to this method of grade disclosure.
Any student who infringes the University's Statement on Academic Ethics and the Senate Resolutions on Academic Dishonesty as detailed in the Senate Policy Statements will be treated as prescribed.