LIFS2280 Plant Biology Laboratory
Course Outline - Spring 2018

1. Instructor
Name: Melody K.W. Leung
Contact Details: Ext. x8634; Rm 5450; bomleung@ust.hk

2. Teaching Assistants
Name & Contact Details:

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<tr>
<th>Name</th>
<th>Email</th>
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<tbody>
<tr>
<td>Wang Ruirong</td>
<td><a href="mailto:rwangav@connect.ust.hk">rwangav@connect.ust.hk</a></td>
</tr>
<tr>
<td>Wang Xinlei</td>
<td><a href="mailto:xwangda@connect.ust.hk">xwangda@connect.ust.hk</a></td>
</tr>
<tr>
<td>Lai Ho Chun</td>
<td><a href="mailto:hclaiac@connect.ust.hk">hclaiac@connect.ust.hk</a></td>
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<tr>
<td>Nam Yoohee</td>
<td><a href="mailto:ynam@connect.ust.hk">ynam@connect.ust.hk</a></td>
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<tr>
<td>Lau Shun Fat</td>
<td><a href="mailto:sflau@connect.ust.hk">sflau@connect.ust.hk</a></td>
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3. Meeting Time and Venue
Lab session:
Date / Time / Venue: Fridays 13:00-15:50 @ Teaching Lab Rm 4160

Tutorials:
Date / Time / Venue: Mondays 13:30-14:20 @ Classroom Rm 1104
Fridays 12:00-12:50 @ Classroom Rm 2306

4. Course Description
Credit Points: 3

This laboratory course is designed to allow students to have hands-on experience on techniques commonly used in plant biology researches. The theoretical principles underlying the techniques involved in this course will be covered in laboratory manual and explained in the pre-lab tutorials. The manual also includes step-by-step instructions for carrying out the experiments and writing lab reports. Obtained results and problems related to each of the experiment will be discussed in the post-lab tutorials.
5. Intended Learning Outcomes

On successful completion of this course, students are expected to be able to:

1. Practice key research techniques used in plant biology.
2. Qualitatively and quantitatively analyze data and apply plant biology knowledge to interpret the results.
3. Communicate scientifically in the form of reports and proposal.
4. Follow instructions and work effectively in a team to accomplish plant biology research tasks.

6. Assessment Scheme

a. Assignment & Lab reports (50%)
b. Lab performance (10%)
c. Examination (40%)

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<tr>
<th>Assessment</th>
<th>Assessing Course ILOs</th>
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<td>Assignment &amp; Lab reports</td>
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<td>Lab performance</td>
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<td>Examination</td>
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Keyword Syllabus:
- Plant structure: Cells and tissues of the plant body. Shoot and root architecture.
- Genetics: Reporter gene expression and regulation.
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<tr>
<th>Date</th>
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<tr>
<td><strong>12th Feb (Mon)</strong></td>
<td>13:30-14:20</td>
<td>Introduction</td>
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<td>Rm 1104</td>
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<td><strong>23rd Feb (Fri)</strong></td>
<td>12:00-12:50</td>
<td>Pre-lab tutorial 1</td>
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<td>Rm 2306</td>
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<td><strong>23rd Mar (Fri)</strong></td>
<td>13:00-15:50</td>
<td>Lab 1. Plant Structure</td>
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<td><strong>26th Feb (Mon)</strong></td>
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<td>Pre-lab tutorial 3</td>
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<td>Lab 3. Plant growth and Development</td>
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