Computational and Systems Biology Course Curriculum

Matlab Bootcamp
G. Danuser, A. Doncic, K. Jaqaman, M. Driscoll

1 week August (Summer)

Core Course
Introduction to Statistics
L. Cowell et al.

16 weeks Aug-Dec (Fall)

Mathematical Foundations of Quantitative Biology
K. Reynolds
M. Lim

WIPS, Journal Club, Seminar

4 weeks January (Spring)

Quantitative Biology
R. Ranganathan

4 weeks April (Spring)

Advanced Data Analysis and Statistical Learning (2016)
Y. Xie

Machine Learning of Biological Data I (2017)
TH Hwang
### Computational and Systems Biology Course Curriculum

(all courses can be offered as electives to other programs)

<table>
<thead>
<tr>
<th>Duration</th>
<th>Start Date</th>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>May (Summer)</td>
<td>Proteomics &amp; Metabolomics (2016)</td>
<td>S. Patrie</td>
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<tr>
<td>4 weeks</td>
<td>June (Summer)</td>
<td>Genomics (2017)</td>
<td>N. Grishin</td>
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<tr>
<td>1 week</td>
<td>June (Summer)</td>
<td>Computational Image Analysis Bootcamp</td>
<td>K. Jaqaman</td>
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<tr>
<td>2 weeks</td>
<td>July (Summer)</td>
<td>Molecular Modeling</td>
<td>J. Wang</td>
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<tr>
<td>1 week</td>
<td>Late July/Early August (Summer)</td>
<td>Next-Generation Sequencing Data Analysis Bootcamp</td>
<td>TH Hwang</td>
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- **WIPS, Journal Club, Seminar**