

**Schedule BIO 592 and CSC 591.** The schedule is subject to change. Please review frequently!

| Day     | Topic                            | Note            | Assignments                                                                                     |
|---------|----------------------------------|-----------------|-------------------------------------------------------------------------------------------------|
| 01/16 F | Preview, Introduction to Biology | LMB             | Read the syllabus and schedule<br>Read <i>Introduction to Molecular Biology for CS students</i> |
| 01/16 F | Origin of replication / GC-skew  | Chapter 1 – LMB |                                                                                                 |
| 01/23 F | Introduction to algorithms       | SH              |                                                                                                 |
| 01/23 F | Introduction to algorithms       | SH              |                                                                                                 |
| 01/30 F | Genome Assembly                  | Chapter 3 – LMB |                                                                                                 |
| 01/30 F | Genome Assembly                  | Chapter 3 – LMB |                                                                                                 |
| 02/06 F | Coding                           | LMB             |                                                                                                 |
| 02/06 F | Coding                           | LMB             |                                                                                                 |
| 02/13 F | Motifs                           | Chapter 2 – SH  |                                                                                                 |
| 02/13 F | Motifs                           | Chapter 2 – SH  |                                                                                                 |
| 02/20 F | Motifs                           | Chapter 2 – SH  |                                                                                                 |
| 02/20 F | Project mentoring                |                 |                                                                                                 |
| 02/27 F | Alignments                       | Chapter 5 – SH  |                                                                                                 |
| 02/27 F | Alignments                       | Chapter 5 – SH  |                                                                                                 |
| 03/06 F | Article Presentations            |                 | Three presentations (6 students)                                                                |
| 03/06 F | Alignments                       | Chapter 5 – SH  |                                                                                                 |
| 03/13 F | Genome rearrangements            | Chapter 6 – SH  |                                                                                                 |
| 03/13 F | Genome rearrangements            | Chapter 6 – SH  |                                                                                                 |

|         |                                           |                 |                                     |
|---------|-------------------------------------------|-----------------|-------------------------------------|
| 03/20 F | <b>Spring Break</b>                       | <b>No Class</b> |                                     |
| 03/20 F | <b>Spring Break</b>                       | <b>No Class</b> |                                     |
| 03/27 F | Midterm Exam                              |                 |                                     |
| 03/27 F | Project mentoring                         |                 |                                     |
| 04/03 F | Phylogeny                                 | Chapter 7 – LMB |                                     |
| 04/03 F | Phylogeny                                 | Chapter 7 – LMB |                                     |
| 04/10 F | Phylogeny                                 | Chapter 7 – LMB |                                     |
| 04/10 F | Article Presentations                     |                 | Three presentations<br>(6 students) |
| 04/17 F | Combinatorial Pattern Matching            | Chapter 9 – LMB |                                     |
| 04/17 F | Combinatorial Pattern Matching            | Chapter 9 – LMB |                                     |
| 04/24 M | Project Presentation                      |                 |                                     |
| 04/24 W | Project Presentation                      |                 |                                     |
| 5/1 F   | Final Exam<br>8:30 am -11:00 am 02015 EBI |                 |                                     |

There will be weekly in-class quizzes and/or literature reviews.