

## BIOL 2603H - Honors Integrated Biology

Fall 2026 Syllabus, Section 01, CRN 42472,

Credit hours: 4

### Instructor

Xiangjia "Jack" Min

Professional Qualifications:

Ph. D., Plant Science, University of Hawaii Master's, Software Systems, University of British Columbia Master's, Plant Science, China Agricultural University Bachelor's, Plant Science, Qingdao Agricultural University

Professor

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Additional Contact Methods:

Notes: This course has two instructors. Thus, two syllabi will be used for each section. Please refer respective syllabus for both contact information and schedules.

Preferred Contact Method: Email

Communication Expectations:

Typically respond to email within 24 hours.

How to Refer to me:

Dr. Min

### Course Description

2603H. Honors Integrated Biology . This course is an introduction to general biology that focuses on those aspects of biology that are the fundamental basis of medicine and human biology. Restrictions: Admittance to BS in Biochemistry or Electrical and Computer Engineering with a Biomedical emphasis. 4 s.h.

### Course Readings

| Group    | Title   | Author         | ISBN        |
|----------|---------|----------------|-------------|
| Required | Biology | Brooker et al. | 6th edition |

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

### Course Schedule

| Week of | Reading(s)                                  | Proposed Topic                          | Due/To Prepare for Class |
|---------|---------------------------------------------|-----------------------------------------|--------------------------|
| 8/24    | Chapter 1 - 2                               | Introduction; Atoms and Molecules;      |                          |
| 8/31    | Chapter 3 - 4                               | Organic Mol.; General Features of Cells |                          |
| 9/7     | 9/7 Holiday; Chapter 5 - 6                  | Membranes; Energy and Enzymes           |                          |
| 9/14    | Test 1 on 9/14 Chapter 1 -6; Chapter 7; 11  | Cellular Respiration; DNA               |                          |
| 9/21    | Chapter 12; 14; 15                          | Gene Expression I, III; Mutation        |                          |
| 9/28    | Test 2: cover Chapter 7 - 15 Chapter 16, 17 | Cell Cycle; Inheritance                 |                          |
| 10/5    | Chapter 19, 21                              | Virus and Bacteria; Biotechnology       |                          |

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|-------|---------------------------------------|---------------------------------------|
| 10/12 | Chapter 21; 23                        | Biotechnology (continued); Population |
|       | 10/16 - Test 3: cover Chapter 16 - 23 | Genetics                              |

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.