IB 150 Syllabus and Course Policies

Lectures:
   AL2: Monday, Wednesday, Friday 11 AM-12:50 PM, 2020 Natural History Bldg
   AL3: Monday, Wednesday, Friday 3 PM - 4:50 PM, 2020 Natural History Bldg

Discussion: (only applies to students enrolled in this additional hour through the AAP office. Please check your course schedule to see which session you are enrolled in and what time it meets.)
   Section AE1: 2090 Natural History Bldg, Tuesday 11-11:50 AM

Lecture Instructors:
Section AL2:  Dr. Benjamin Clegg, office 2006A NHB, email: ib150AL2@life.illinois.edu
Section AL3:  Dr. Lily Arias, office 3010 NHB, email: ib150AL3@life.illinois.edu

Course Webpage
You will find links to all pre-lecture lessons and other assignments each week on the Moodle course webpage:

   AL2 webpage:  https://learn.illinois.edu/course/view.php?id=35047
   AL3 webpage:  https://learn.illinois.edu/course/view.php?id=35194

Login with your University NetID and password. We recommend that you bookmark this page after you accessed the course page for the first time.

Textbooks and Other Required Materials

(Required) Textbook: Freeman. *Biological Science. eText* of 6th edition. Pearson. (Purchasing a paper copy of the text is also possible. However, make sure that you purchase a version that includes access to Pearson Mastering Biology). See the course webpage for more information on registering your online textbook components.

(Required) IB 150 Spring 2019 AL2/AL3 Course Folders

(Required) iClicker

(Required) A non-programmable calculator other than your smart phone for simple calculations on exams.

(Required) A laptop or other web-enabled devices that you can bring to every lecture. If you do not have access to a web-enabled portable device, please let Ben or Lily know and we can arrange for you to check a device out for this class.
# Tentative Class Schedule

Below is a tentative class schedule, highlighting the relationship between Lectures, Discussions and Readings. We reserve the right to make changes to the class schedule. Please consult the course homepage at learn.illinois.edu for assignment due dates and to check for any updates to this schedule.

<table>
<thead>
<tr>
<th>Lectures</th>
<th>Semester Project</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB 150 credit</td>
<td>IB 199 credit</td>
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## Unit 1
### Life and Energy

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Lectures</th>
<th>Semester Project</th>
<th>Readings</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Jan. 14-20</td>
<td>1.1 Science of Life</td>
<td>Intro to Scientific Method online module due Friday, 11:59 pm</td>
<td>Chapters : 1; 2.3; 8.1-8.4; 40.1</td>
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<tr>
<td></td>
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<td>1.2 Why do all organisms need energy?</td>
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<td></td>
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<td>1.3 How are cellular processes powered?</td>
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<tr>
<td>2</td>
<td>Jan. 21-27</td>
<td>MLK Day – no classes</td>
<td>Project selection &amp; statement of interest due Friday 11:59 pm</td>
<td>Chapters : 9</td>
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<tr>
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<td>1.4 Cellular Respiration</td>
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<td>1.5 Other metabolic pathways</td>
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<tr>
<td>3</td>
<td>Jan. 28 - Feb. 3</td>
<td>1.6 Energetic Constraints on Anatomy</td>
<td>Annotated Bibliography due Friday 11:59 pm</td>
<td>Chapters : 6.3; 39.2-39.4; 42.1-42.3</td>
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<tr>
<td></td>
<td></td>
<td>1.7 Respiratory system of insects</td>
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<td>1.8 Respiratory system of mammals</td>
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<tr>
<td>4</td>
<td>Feb. 4-10</td>
<td>1.9 Respiratory System Diversity</td>
<td>Developing outreach project for submission</td>
<td>Chapters : 42.3-42.4</td>
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<tr>
<td></td>
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<td>1.10 Respiratory Pigments 1</td>
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<td>1.11 Respiratory Pigments 2</td>
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<td>5</td>
<td>Feb. 11-17</td>
<td>1.12 Semester Project Part 1 prep</td>
<td>Developing outreach project for submission</td>
<td>Chapters : 16</td>
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<td></td>
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<td>2.1 Molecular Basis for Heredity</td>
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<td>2.2 Genotype vs. phenotype</td>
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<tr>
<td>6</td>
<td>Feb. 18-24</td>
<td>2.3 Mutations: Origin of genetic diversity</td>
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<td></td>
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<td>EXAM 1 THURSDAY (Lectures 1.1-1.12)</td>
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<td>2.4 Passing on genetic information</td>
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<td>7</td>
<td>Feb. 25 - Mar. 3</td>
<td>2.5 Meiosis &amp; Sexual reproduction</td>
<td>Public outreach project due Friday, 11:59 pm</td>
<td>Chapters : 13, 14</td>
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<td>2.6 Linking Meiosis to heredity</td>
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<td>2.7 Monohybrid Crosses</td>
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<td>8</td>
<td>Mar. 4-10</td>
<td>2.8 Genetic Crosses &amp; Mendelian Ratios</td>
<td>Semester Project: Genetic Basis of Trait section due Friday, 11:59 pm</td>
<td>Chapters : 14</td>
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<td>2.9 Polygenic Traits</td>
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<td>2.10 Dihybrid Crosses &amp; Epistasis</td>
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<td>9</td>
<td>Mar. 11-17</td>
<td>2.11 Testing for linkage disequilibrium</td>
<td>Semester Project: SNP section due Friday, 11:59 pm</td>
<td>Chapters : 23.1</td>
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<td>2.12 Linkage mapping</td>
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<td>3.1 Population genetics</td>
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## Unit 2
### Life and Heredity

<table>
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<th>Readings</th>
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<tr>
<td>10</td>
<td>Mar. 18-24</td>
<td>3.2 Hardy-Weinberg Principle</td>
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<td>EXAM 2 THURSDAY (Lectures 2.1-2.12)</td>
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<td>3.3 Testing Populations for H-W Equilibrium</td>
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<td>11</td>
<td>Mar. 25-31</td>
<td>3.4 Mutations &amp; Genetic Drift</td>
<td>Exploring population genetic data sets on semester project topic</td>
<td>Chapters : 22, 23.2, 23.3, 23.5</td>
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<td>3.5 Gene Flow &amp; Non-Random Mating</td>
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<td></td>
<td>3.6 Natural Selection &amp; Sexual Selection</td>
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<tr>
<td>12</td>
<td>April 1-7</td>
<td>3.7 Evolutionary Case Studies</td>
<td>Testing evolutionary hypotheses on semester project topic</td>
<td>Chapters : 24, 25.1-25.2</td>
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<td>3.8 Developing Evolutionary Hypotheses</td>
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<td>3.9 Speciation</td>
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<td>13</td>
<td>April 8-14</td>
<td>3.10 Cladistics</td>
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<td>3.11 Reconstructing phylogenetic relationships</td>
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<td>4.1 Form &amp; Function of Circulatory Systems</td>
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## Unit 3
### Evolving Life

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<td>4.2 Evolution of Novel Traits</td>
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<td>EXAM 3 THURSDAY (Lectures 3.1-3.11)</td>
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<td>4.3 Comparative Anatomy</td>
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<td>15</td>
<td>April 22-28</td>
<td>4.4 Conference Workshop</td>
<td>Presentation first draft due Friday, 11:59 pm</td>
<td>Chapters : 39.1; 39.5; 42.5</td>
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<td>4.5 IB 150 conference</td>
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<td>16</td>
<td>April 29 - May 1</td>
<td>4.1 Cladistics</td>
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<td>4.11 Reconstructing phylogenetic relationships</td>
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<td>4.12 Form &amp; Function of Circulatory Systems</td>
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## Unit 4
### Integrative Approach to Biology

<table>
<thead>
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<th>Semester Project</th>
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<tbody>
<tr>
<td>17</td>
<td>May 2-8</td>
<td>5.11 Other metabolic pathways</td>
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<td>5.12 Energy Metabolism</td>
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<td>5.13 Energetic Constraints on Anatomy</td>
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<td></td>
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<td>5.14 Respiratory system of insects</td>
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<td>5.15 Respiratory system of mammals</td>
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<td>5.16 Respiratory System Diversity</td>
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<td>5.17 Respiratory Pigments 1</td>
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<td>5.18 Respiratory Pigments 2</td>
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<td>18</td>
<td>May 9-15</td>
<td>5.19 Semester Project Part 1 prep</td>
<td>Developing outreach project for submission</td>
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<td>5.20 Molecular Basis for Heredity</td>
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<td>5.21 Genotype vs. phenotype</td>
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<td>May 16-22</td>
<td>5.22 Mutations &amp; Genetic Drift</td>
<td>Exploring population genetic data sets on semester project topic</td>
<td>Chapters : 22, 23.2, 23.3, 23.5</td>
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<td>5.23 Gene Flow &amp; Non-Random Mating</td>
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<td>5.24 Natural Selection &amp; Sexual Selection</td>
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<td>20</td>
<td>May 23-29</td>
<td>5.25 Evolutionary Case Studies</td>
<td>Testing evolutionary hypotheses on semester project topic</td>
<td>Chapters : 24, 25.1-25.2</td>
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<td>5.26 Developing Evolutionary Hypotheses</td>
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<td>5.27 Speciation</td>
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<td>21</td>
<td>June 1-7</td>
<td>5.28 Evolutionary Diversity</td>
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<td>5.29 Evolutionary Radiation</td>
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<td>5.30 Evolutionary History</td>
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<td>June 8-14</td>
<td>5.31 Cladistics</td>
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<td>5.32 Reconstructing phylogenetic relationships</td>
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<td>5.33 Form &amp; Function of Circulatory Systems</td>
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## Finals

**Comprehensive Final Exam** covers Lectures 1.1-4.4

Tentative date & location: TBA, Location TBA
## IB 150 Course Grade Scale

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage Range</th>
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<tr>
<td>A+</td>
<td>&gt;100</td>
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<td>A</td>
<td>93–99</td>
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<tr>
<td>A–</td>
<td>90–92</td>
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<tr>
<td>B+</td>
<td>87–89</td>
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<tr>
<td>B</td>
<td>83–86</td>
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<tr>
<td>B–</td>
<td>80–82</td>
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<tr>
<td>C+</td>
<td>77–79</td>
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<tr>
<td>C</td>
<td>73–76</td>
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<tr>
<td>C–</td>
<td>70–72</td>
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<td>D+</td>
<td>67–69</td>
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<td>D</td>
<td>63–66</td>
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<td>D–</td>
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## IB 150 Course Grade Structure

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<tr>
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<tbody>
<tr>
<td>Hour Exams</td>
<td>400</td>
<td>Exam 1: 100 pts</td>
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<td>Exam 2: 150 pts</td>
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<td>Exam 3: 150 pts</td>
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<td>Final Exam</td>
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<tr>
<td>Pre-Lectures</td>
<td>105</td>
<td>36 pre-lectures @ 3 pts each (lowest pre-lecture dropped)</td>
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<tr>
<td>Lectures (via iclickers)</td>
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<td>36 lectures @ 5 pts each (3 lowest lectures dropped)</td>
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<tr>
<td>Weekly homework sets</td>
<td>50</td>
<td>14 Homework sets @ 5 pts each (4 lowest HW dropped)</td>
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<td>Weekly PackBack Posts</td>
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<td>15 posts @ 5 pts each (lowest post dropped)</td>
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<td>Extra credit opportunities:</td>
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<td>Participation in Cromley Research Study</td>
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<td>Participation in I-STEM Research Study</td>
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<td>Study Strategy Modules</td>
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<td>Cladistics scratchcards</td>
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<td>3 course surveys</td>
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<td>Getting to know my classmates</td>
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<td>Exam Scratch Cards</td>
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<td>COURSE TOTAL</td>
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<td>(+50 pts extra credit)</td>
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Exam Information

There are three hour exams, each covering the preceding Unit, and one cumulative final exam that covers all four Units in this course. Material from Unit 4 is only covered on the final exam, while material from Units 1-3 are covered both on respective individual hour exams and the comprehensive final exam.

Exams are proctored, closed book, closed notes, and are based on the learning objectives of the lecture and discussion activities of each respective unit.

Hour exams consist of a combination of 25 multiple choice (MC), 3 short answer questions, and 1 essay question. Practice Exams for the Hour Exams will be available on the course webpage.

To be excused for an exam and granted a make-up exam, you need to notify us PRIOR to the beginning of the exam by e-mail (ib150AL2@life.illinois.edu OR ib150AL3@life.illinois.edu), AND provide documentation for illness, family emergency, or athletic events (only applicable to U of I athletes) no later than 1 week (5 business days) after the hour exam. Make-Up Exams will only be given to students whose absences are eligible under University Policies.

Please consult the Student Code Article 1, Part 5 to check whether a particular reason for absence is eligible to be excused from the regularly scheduled exam time: http://studentcode.illinois.edu/article1_part5_1-501.html.

Exam Dates

This course’s hour exams are EVENING EXAMS held in the NHB Auditorium on Tuesdays or Thursdays.

Exam 1: Thursday 7-9 pm, February 21st
Exam 2: Thursday 7-9 pm, March 28th
Exam 3: Thursday 7-9 pm, April 25th

Questions and corrections to exam grades

This course has secure exams, so you will not be allowed to view it again after you turn it in. A key to the exams will not be posted. Students who believe that the scantron machine has graded their exam incorrectly should contact (ib150AL2@life.illinois.edu OR ib150AL3@life.illinois.edu).
Final Exam

The Final Exam will be administered on TBA and location TBA.

Final exam scope: The Final Exam will be cumulative and cover lecture, assigned readings, homework, and discussion material from throughout the entire semester.

In case of illness or personal emergency the day of the final exam, contact a Dean in your college. Only a Dean can excuse a student from a final exam.

Final exam conflict requests: Requests for a Conflict Final Exam should be made by filling out the Final Exam Conflict Request Form (available on moodle in the Final Exam module) and turning it in to ib150AL2@life.illinois.edu OR ib150AL3@life.illinois.edu. The ONLY reasons for such a request are:

1. The student has three final exams within a 24 hour period as defined in Section § 3-201.5 of the UIUC Code of Policies and Regulations Applying to All Students (http://admin.illinois.edu/policy/code/). None of the 3 exams can be a conflict exam. If a conflict exam causes you to have 3 exams in a row, you need to request a different conflict exam time for that course.

2. The student has another final exam scheduled at the same time as the IB 150 Final Exam. The conflicting course's enrollment must be LOWER than the IB 150 enrollment for you to take the IB 150 Conflict Final Exam and must be a Non-Combined course final exam. The conflicting exam must not be a conflict exam for another course.

3. The student has a verified personal problem, and has received written permission to take the IB 150 Conflict Final Exam from a Dean in their College.

Travel plans or wanting to leave campus early before the last day of scheduled finals are NOT reasons to request a Final Exam Conflict.

Please be aware that as per university policy, an unexcused absence from a final exam will result in a course grade of ABS, which is counted like an F towards your GPA.

Resurrection Policy:

If your score on the final exam is higher than your average exam scores (final exam and scratch ticket scores inclusive), the final exam % will replace your hour exam category %. Homework, lecture, & discussion scores are NOT replaced by this policy.
Course Components

Pre-Lecture Lessons

You are required to complete the online pre-lecture lessons found on the moodle course webpage under each lecture before the beginning of each lecture. You are allowed multiple attempts at the complete lessons. Your final score will be the average score of your attempts at a full pre-lecture lesson. You can rework the questions in the study versions that open after the due date for practice without credit.

Lecture Activities

We will have group activities during many of the lecture periods and attendance is mandatory. Answers to lecture activities are submitted via iClickers. iClicker scores are scored 80% for attendance, and 20% for accuracy, unless announced otherwise on a question by question basis during class.

You must attend lecture and answer at least 75% of all clicker questions to earn the points associated with each lecture. Please see the section on excused absences for information on how to make up work in cases of excused absences.

Lecture and Discussion Etiquette

We are an active learning class and we need your help to make the learning environment in the iFLEX room the best as it can be. So please:

1. Arrive on time. Try to arrive early if possible. If you cannot avoid arriving late, please enter quietly and join your group.

2. Silence pagers and cell phones, and please do not text-message during lecture. We welcome you to bring your laptops, however we restrict laptop use to 1 per group.

3. Be considerate of the people around you. Please no talking unless you are doing so as part of a lecture activity. If you have questions please feel free to raise your hand and the instructor or TA will assist you.

4. Remember that the lecture is not over until you have been dismissed. Packing up during lecture is disruptive and irritating to other classmates and instructors.
Weekly Online Homework Sets

Each week has an online homework set that is due on the Friday of the same week at 11:59 pm. Links to these assignments are found on the moodle course page in each week’s module. Each of these homework sets is worth 5 points. You have 2 attempts at each question for multiple choice questions, the second scored for half credit. Written responses have only a single attempt and are manually graded by your TA. All efforts are made to have a fast turn-around time on grading the free responses, however we only guarantee that your attempt is graded within 1 week of the due date of each assignment. Note that you can check for automatic feedback immediately after the due date by visiting the homework set after its due date, however.

Weekly PackBack posts

Due Sunday of each week, these posts consist of an open-ended question (a question that cannot simply be answered with a definition or yes and no), and TWO replies to questions from other students. You are encouraged to ask questions that apply weekly content to additional, real-life examples, or explore new aspects of the concepts we discussed in class. The purpose of these posts is to allow you to brainstorm how the covered concepts work, and how they can be used to gain new insights into biological phenomena. The access code to your PackPack log-in is found in the front of your course manual for SP19. Each complete post of question and answers is worth 5 points per week, and is graded on the quality of your post.

TA Grading Disputes

If you think an assignment has been graded unfairly bring it to the attention of your TA within one week after assignment is returned. Disputes will not be considered after one week. If the situation is not resolved, contact Benjamin Clegg to set up an appointment (via: ib150AL2@life.illinois.edu OR ib150AL3@life.illinois.edu) immediately after meeting with your TA. We will not address disputes more than two weeks after the assignment was returned.

Late Assignments, Missed Attendance, Section Change

Late Submissions of Assignments

Online assignments are typically due at 11:59 pm CDT/CST on their listed due dates, unless otherwise noted. All assignments must be completed on time. Late submissions will NOT be graded, unless incurred due to extenuating circumstances. Proper documentation for illness, family emergency, athletic event or other legitimate reason is required in order to receive an extension for submitting assignments.

Please consult the Student Code Article 1, Part 5 to check whether a particular reason for absence is eligible for late submission of work: http://studentcode.illinois.edu/article1_part5_1-501.html.
**Missed Lecture and Discussion Attendance**

You must attend lecture to earn the points associated with each lecture activity. If you cannot make lectures due to an excused absence you may turn in a COMPLETED copy of the missed lecture worksheet in the course manual together with a written doctor’s note or letter from emergency dean documenting your absence as excused. **You have until the lecture period immediately following the end of your excused absence period to turn your worksheet in to receive lecture participation points.**

To be excused from AE1 discussion (if applicable), please provide your TA a copy of the doctor’s note or letter from emergency dean at the beginning of the discussion immediately following the excused period of absence.

Please consult the Student Code Article 1, Part 5 to check whether a particular reason for absence is eligible for late submission of work: [http://studentcode.illinois.edu/article1_part5_1-501.html](http://studentcode.illinois.edu/article1_part5_1-501.html).

**Add and Drop Information**

Apply at your College Office before the deadline if you wish to elect the Credit/No Credit option. To drop the course after the drop deadline, students must petition a Dean in their College Office. Petitions obtained at the College Office should then be brought to the office of Dr. Clegg (2006A Natural History Building)

**Late Registration**

Adding the course after the first day of classes does not excuse you from assignments that you have missed. If you add the course late, you need to contact the course email to set up an appointment with your TA to go over what you have missed to date. Students that add late will have due dates extended one week following their add date to allow the opportunity to complete any missed assignments.

**Academic Integrity**

All students are responsible for reading the University of Illinois Student Code. Pay particular attention to [http://admin.illinois.edu/policy/code/article1_part4_1-402.html](http://admin.illinois.edu/policy/code/article1_part4_1-402.html) concerning plagiarism and cheating.

- Penalties for plagiarism on course assignments result in a reduced grade for the assignment and a note in your student file. Plagiarism is the copying or leaning on sources without properly citing your source. To avoid a charge of plagiarism, all submissions need to be your own synthesis of information, demonstrating your own understanding, and any sources you used to obtain information must be properly attributed at the end of your submissions.
• Copying or leaning on unauthorized student files or keys obtained from other students (downloaded from the web or sharing of physical copies) will be charged as cheating and the use of unauthorized materials rather than a charge of plagiarism, and results in a score of zero on the assignment.

• Uploading or sharing of physical answer sets or keys to assignments with other students will be charged as facilitation of cheating with a note in the student file, and a reduction in course grade by one letter grade. An additional lawsuit for copyright infringement may be filed in court if applicable.

• Any form of cheating on hour exams will result in an automatic score of zero on the hour exam and a note in the student file, regardless of the extent to which a student cheated on the exam.

• Cheating on the final exam will result in an automatic score of zero for the course and a note in your student file.

If you have been found guilty of any academic violation, you forfeit the resurrection policy.

Additional penalties may be imposed by the university, including dismissal from the university, depending on the presence of aggravating factors or if this was not your first infraction.

Getting Help

• Only contact your instructor directly if you have a personal question.

• For all other questions about course content, activities, deadlines, technical problems, etc., please check the General Q & A forum at the top of the Moodle Course Webpage to see if someone else has already asked your same question and received a response.

• If your question isn't there yet, post your question to the General Q & A forum.

• Feel free to help your peers out in the General Q&A Forum if you know the answer!

• If you still have a question, email ib150AL2@life.illinois.edu OR ib150AL3@life.illinois.edu.

Disability Accommodations

To obtain disability-related academic adjustments and/or auxiliary aids, students with disabilities must contact the course instructor and the Disability Resources and Educational Services (DRES) as soon as possible. To contact DRES you may visit 1207 S. Oak St., Champaign, call 333-4603 (V/TTY), or e-mail a message to disability@illinois.edu.
IB199 grade

Section AL2 and AL3 are the Merit and AAP sections of IB 150, and you earn additional credit towards IB 199 by being signed up for this section.

One of the ways in which the AL2 and AL3 sections sets itself apart is to enable students to apply the concepts introduced in class to real-world problems and allowing students to develop important skills employers are looking for from students with a degree in biology and other sciences, including: oral and written communication skills, scientific reasoning, team-working skills, ability to apply a working knowledge of core concepts to solving novel problems.

In IB 150 AL2 and AL3 you will be working on a semester-long project on a pressing societal problem of your choosing that requires biological understanding to solve. Work on this project counts towards your IB 199 grade (not towards your IB 150 grade).

### IB199 Grade Scale

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage Range</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100</td>
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<tr>
<td>B</td>
<td>80-89</td>
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<tr>
<td>C</td>
<td>70-79</td>
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<tr>
<td>D</td>
<td>60-69</td>
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<tr>
<td>F</td>
<td>0-59</td>
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### IB 199 Grade Components

<table>
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<tr>
<th>IB 199 Semester Project</th>
<th>Point total</th>
<th>Graded components</th>
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<tbody>
<tr>
<td>Part 1: Public communication of scientific issue</td>
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<td>Introduction to Scientific Method assignment (10 pts)</td>
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<td></td>
<td></td>
<td>Statement of Interest (10 pts)</td>
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<td></td>
<td></td>
<td>Annotated Bibliography (10 pts)</td>
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<td></td>
<td></td>
<td>Part 1: submission (10 pts)</td>
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<td>Part 2: Proposal of solution of scientific issue</td>
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<td>SNP section (10 pts)</td>
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<td>Population genetics &amp; Intro (10 pts)</td>
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<td></td>
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<td>Presentation (20 pts)</td>
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<td>Participation:</td>
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<td>In-class work on semester project (5 pts)</td>
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<td>Responsible group member (5 pts)</td>
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<td>Total:</td>
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