Lab is a separate class from the lecture. The timing of lab and lecture topics will not always align depending on schedules. Even though they are less credit hours, labs will require the same amount of study time! You are required to print out the syllabus and the supplemental packet. You may bring a tablet or laptop to lab if you do not want to print the pages.

TENTATIVE SCHEDULE for

**BSC 2010 – General Biology I Lab**

Summer A 2017 T/Th

|  |  |  |  |
| --- | --- | --- | --- |
| **READINGS** | | | |
| **Day** | **Lab Topic** | **Lab Manual Section** | **Lecture Text** |
| May 9 | Introduction‡, Safety‡; Metric | v-viii; **Ex 1** pgs.1-11 |  |
| May 11 | Metric; Microscope‡ | **Ex 2** p.13-24 ; lab review | p. 60 – 63 |
| May 16 | Cell structure‡; pH | **Ex 3** p. 25-34; p. 43-44, review | p. 60-87; 29-30; 41-44 |
| May 18 | **TEST I;** Enzymes | **Ex 5** p. 45-52, lab review | p. 113-119 |
| May 23 | Cell function, Osmosis‡ | **Ex 4** p. 35-42; lab review | p. 59 – 99 |
| May 25 | Cellular respiration‡, Fermentation‡ | **Ex 6** p. 53-61; lab review | p. 122 – 143 |
| May 30 | **TEST II;** |  |  |
| June 1 | Mitosis, Meiosis | **Ex 7** p. 63-75 | p. 186 – 218 |
| June 6 | Mendelian genetics‡ | **Ex 8** p. 77-88; lab review | p. 221 – 236 |
| June 8 | Human genetics‡, Karyotyping‡ | **Ex 9** p. 89-104, **Ex 10** p. 105-112; lab review | p. 239 – 253 |
| June 13 | Predator/Prey Evolution‡ | **Ex 11** p.113-119 | p. 396 - 414 |
| June 15 | **Comprehensive Final 1 of 2**– Lab Practical (Normal class time) |  |  |
| June 20 | **Comprehensive Final 2 of 2**– Microscope Review and Exam (Normal class time) | **Ex 12** p. 121-124 |  |

**‡ *Required pre-lab readings in Lab packet***

**LAB MANUAL**: BSC2010L General Biology I Laboratory Manual, 1st ed. By Hayden-McNeil , 2017 (full text)

BSC2010L General Biology I Laboratory Manual, 1st ed. By Hayden-McNeil (Bowen 8859-4 F16), 2017, Vol 1 (IRSC Special Print)\*\*, 2nd ed

\*\*recommended as this is a special version of the textbook for IRSC students only

**LECTURE TEXT**: BSC2010 General Biology I , 10th ed. By Raven et.al., 2014

Student study guide is optional;

Suggested reading: How to Study Science by Drewes

**Additional Resources Available:** [http://biology-irsc.weebly.com](http://biology-irsc.weebly.com/)

**PROFESSOR:** **OFFICE:**

**PHONE:** **E-MAIL:**

**GRADES:** Grades are based on two, 100 point unit exams and one 200 point comprehensive final exam.

(The final exam is a 100-point exam, whose grade is doubled). The final grade will be calculated as the average of the three highest 100 point exams (i.e. one of the unit exams or one of the two 100-point final exam grades will be dropped, whichever is lowest). A microscope focusing exam will be given before the comprehensive final exam, and is worth 20 of the 200 points of the final exam.

To figure your score on the final exam: [(score on 100 point exam) x 2 x 0.9] + score on microscope test

The grades are assigned on the following basis:

A: 90 - 100 B: 80 - 89 C: 70 - 79 D: 60 - 69 F: below 60

No extra credit projects will be granted beyond the test assignments.

W = withdraw by Mon., June 5 I = incomplete for passing students only in EXTREME cases

**OPEN LAB POLICY:** Refer to General Lab Rules handout

**ATTENDANCE:** Students are expected to be present in lab in order to accomplish the learning goals for the lab practical examinations.  **Three percentage points will be taken off for EACH *lab class missed; absences will be assessed* at the end of the course.  Students will receive 1 free absence *per semester*.** For example, if you miss two lab classes duringthe semester and you ended up with an 80 average, then your final average would be a 77 and you would receive a C in the course.

**Due to increased number of students in the Biology program, you will NOT be able to attend another instructor’s lab for a Practical if you have missed yours.**

**LAB ATTIRE:** Appropriate attire is required for your protection. In keeping with Federal regulations, **students are required to wear flat closed-toe, close-heel shoes in laboratory**. The attire worn in the laboratory work setting should include full coverage of legs (long pants or skirt), shirt with sleeves (not low cut and no bare midriff), hair restraints for long hair, and no dangling jewelry. **If you do not come properly dressed for lab, you will NOT will allowed in.**

**ELECTRONIC DEVICES:** All electronic communication devices are prohibited during exams or quizzes. The use of cell phones is prohibited during class and must be set on *silent* or *off* during the class period.  Any student who uses a cell phone to make or answer a call, or send and/or read text messages or emails during class time may be asked to leave and considered absent for that class. Electronic devices may be used to take pictures of slides or models.

**CHEATING:** Cheating of ANY kind **WILL NOT** be tolerated by this Department or the College. Anyone caught cheating will automatically receive a minimum of a zero for that assignment. Any further episodes will result in an F in the class. Anyone who witnesses this inexcusable behavior and does not report it is also considered to be guilty of improper conduct.

**MAKE-UP POLICY:** Students should take their lab exams with their lab section at the assigned time. If a student is unable to attend the scheduled exam, it will be counted as a zero. **No make-up unit exams will be given.** A student cannot make up an exam at a time other than their scheduled lab period. One missed unit exam (zero grade) will be dropped as the lowest grade as described above. If a student misses the final exam, they must contact the instructor within 24 hours of the schedule exam time with a verifiable emergency. Otherwise, they will be issued an incomplete for the course if they are currently passing the course; if they are not currently passing the course, the missed final will count as a double score of zero as described above.

**LEARNING OUTCOMES:** at the completion of the course, the student will be able to:

* Communicate major biological concepts and relate how these are connected within various areas of the biological and physical sciences in a laboratory setting.
* Apply critical thinking skills to provide the foundation for lifelong learning and career development

**STUDENTS WITH DISABILITIES:** In compliance with the Rehabilitation Act of 1973, Section 504, and the Americans with Disabilities Act of 1990, professional disability specialists and support staff at the Student Disability Services (SDS) facilitate a comprehensive range of academic support services and accommodations for qualified students with disabilities. IRSC offers many disability resources at on-campus labs.  Students who wish to request an accommodation for a documented disability should contact the SDS at 772-462-7782 or 772-462-7808.

**NON-DISCRIMINATION AND NON-HARASSMENT POLICY:** Indian River State College (College) is committed to maintaining a fair and respectful employment and educational environment. In accordance with federal, state and local equal opportunity laws, Indian River State College prohibits discrimination on the basis of race, color, national origin, ethnicity, sex, religion, age, disability, sexual orientation, marital status, veteran status, or genetic information.