

**HOWARD UNIVERSITY
COLLEGE of ARTS and SCIENCES
COMPREHENSIVE SCIENCES**

Spring 2015

LIFE SCIENCES LABORATORY SCHEDULE

LABORATORY INSTRUCTOR: _____

DAY & TIME: _____

***ALL SCHEDULED LABORATORIES MEET IN ROOM 117– E.E. JUST HALL (BIOLOGY BUILDING)

GENERAL GUIDELINES

1. Each student is held fully responsible for laboratory attendance and participation in the weekly laboratory exercise.
2. Announced quizzes are given in the laboratory. These are usually short answer, objective type tests.
3. Laboratory work constitutes 40% of the TOTAL COURSE GRADE.
4. You MUST ATTEND YOUR LABORATORY AT YOUR ASSIGNED SECTION TIME. Make-up work for the laboratory cannot be done. (If you happen to miss your regularly scheduled laboratory class, make sure you attend another laboratory class scheduled at a different time).
5. Laboratory exercises and lecture material have been correlated as closely as possible for this semester's work. Consult your lecturer if you need assistance in understanding the lecture-laboratory interaction.

LABORATORY FEES STATEMENT

The laboratory fee that is assessed for this course is used to supplement the expenditures for the purchase of equipment; permanent, temporary, and fresh consumable supplies; and for the repair, replacement, and the maintenance of equipment and supply items that are used in the laboratory.

SCHEDULE OF EXERCISES/ LECTURE EXPERIMENTS	LABORATORY EXERCISES/ EXPERIMENTS	TOPICS
January 12, 2015	Overview of Life Sciences Laboratory	
January 19, 2015	Dr. Martin Luther King's Birthday – Legal Holiday	
January 26, 2015	Introduction to the Laboratory Laboratory Overview 1. Laboratory Procedures and Protocol 2. Laboratory Safety 3. Laboratory Equipment and Use 4. The Metric System	Unit I: Introduction to the Sciences
February 2, 2015	Scientific Methodology 1. Scientific Investigations a. Gathering, Analyzing and Interpreting Data b. Graphs	Unit I: continued
February 9, 2015	Taxonomy 1. Classification of Organisms 2. Scientific names 3. Single-celled and Multicelled Life Forms	Unit II: Taxonomy
February 16, 2015	Presidents' Day (Legal Holiday)	
February 23, 2015	Quiz 1 Structure and Physiology Structure and Physiology of Life Forms The Chemical Composition of Life 1. Inorganic Molecules 2. Organic Molecules in Life Forms (Qualitative and Quantitative Tests) 3. pH (Buffers, Solutions)	Unit III: Structure and Physiology of Life Forms
March 2, 2015	Structure and Physiology 1. The Microscope 2. Cells (unicellular and multi-cellular organisms) 3. Tissues (plants and animals)	Unit III: continued

SCHEDULE OF EXERCISES/ LECTURE EXPERIMENTS	LABORATORY EXERCISES/ EXPERIMENTS	TOPICS
March 9, 2015	Quiz #2 Structure and Physiology 1. Plant Organ Systems and Organs 2. Animal Organ Systems and Organs 3. Individual Multicelled Plants and Animals	Unit III: continued
March 16, 2015	Spring Break (March 15th – March 21st)	
March 23, 2015	Genetics 1. Inherited Traits in Life Forms 2. Mitosis 3. Probability 4. Bioinformatics	Unit IV: Genetics
March 30, 2015	Quiz #3 Reproduction and Development 1. Kingdom Monera 2. Kingdom Protista 3. Kingdom Plantae 4. Kingdom Fungi 5. Kingdom Animalia	Unit V: Reproduction and Development
April 6, 2015	Metabolism and Homeostasis 1. Enzymes 2. Homeostasis-demonstration 3. Metabolism-demonstration	Unit VI: Metabolism Unit VII: Homeostasis
April 13, 2015	Evolution and Ecology 1. The evolution of Life Forms 2. Campus Ecology Survey	Unit VIII: Evolution Unit IX: Ecology
April 20, 2015	Quiz #4 Make-ups	
April 20 - 22, 2015	Graduating Seniors: Final Exams	
April 28, 2015 (Tuesday)	FINAL EXAMINATION – 1:00 P.M. – 3:00 P.M. Comprehensive – Lecture and Laboratory Information LOCATION – BIOLOGY BUILDING AUDITORIUM OR TBA	

TENTATIVE LABORATORY QUIZ SCHEDULE

<u>QUIZ #</u>	<u>DATE</u>
1	Monday, February 23, 2015
2	Monday, March 9, 2015
3	Monday, March 30, 2015
4	Monday, April 20, 2015
Make-ups	Monday, April 20, 2015

Graduating Seniors Final Exam: April 21 (Monday) - April 23 (Wednesday)

Final Exam **Tuesday, April 29, 2014, 1:00 P.M. – 3:00 P.M.**
Comprehensive – Lecture and Laboratory
Location: Biology Building Auditorium or TBA