

**COURSE CODE:** MLS 211

**COURSE TITLE:** INTRODUCTION TO MEDICAL LABORATORY SCIENCE

**NUMBER OF UNITS:** 2 UNITS

**COURSE DURATION:** TWO HOURS PER WEEK

**MODULE 2:** SPECIMEN COLLECTION, RECEPTION, STORAGE AND DISPOSAL

**COURSE LECTURER:** BANKOLE HENRY OLADEINDE

### **INTENDED LEARNING OUTCOMES**

At the end of this course, students should be able to:

1. List common clinical specimens analysed in the Medical Laboratory
2. Understand the need for obtaining patient consent before collection of specimen
3. List and identify the different specimen collection containers/tools used in various disciplines.
4. Understand basic procedures for collecting common clinical specimen
5. Understand the essence of proper specimen identification
6. List different methods of preservation and safe of clinical specimen.

### **COURSE DETAILS:**

**Week 1-3:** *General introduction to medical laboratory science (Clinical Chemistry, Haematology and Blood Transfusion Science, Medical Microbiology, Histopathology and Immunology)*

**Week 4-5:** *Specimen collection procedure; specimen collection bottles; reception and registration of specimen; storage and disposal of specimen*

**Week 6-7:** *Safety precautions in pathology laboratories against chemical, biological, electrical, materials and irradiation hazards.*

**Week 8-9:** *Techniques and principles of chemical sterilization and physical methods*

**Week 10-11:** *glassware cleaning, care and maintenance; breeding of laboratory animals*

**Week 12:** *Revision.*

### **RESOURCES**

• **Lecturer's Office Hours:**

• Mr. Henry Bankole Oladeinde: Wednesdays: 1:00-2:00pm.

• **Course lecture Notes:**

• **Books:**

*Jawetz, Melnick and Adelbergs Medical Microbiology 26<sup>th</sup> Edition by Brooks JF, Morse SA, Caroll KC, Mietzner TA, Butel JS McGraw Hill 2013 ISBN: 978-0-07-181578-9*

*Sherris Medical Microbiology 4<sup>th</sup> Edition by Kenneth J.Ryan and George C. Ray McGraw Hill 2004. ISBN: 0-07-150238-6*



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- Homeworks + Project: ~ 30% of final grade.
- **Exams:**
- Final, comprehensive (according to university schedule): ~ 70% of final grade

### **Assignments & Grading**

- **Academic Honesty:** All class work should be done independently, unless explicitly stated otherwise on the assignment handout.
- You may discuss general solution strategies, but must write up the solutions yourself.
- If you discuss any problem with anyone else, you must write their name at the top of your assignment, labeling them “collaborators”.
- **NO LATE HOMEWORKS ACCEPTED**
- Turn in what you have at the time it’s due.
- All homeworks are due at the start of class.
- If you will be away, turn in the homework early.
- Late Assignments (projects) will not be accepted, but penalized according to the percentages given on the syllabus.



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