Applied Biochemistry and Laboratory Medicine content is not centered within a single course but is integrated throughout the medical curriculum, contextually associated with relevant body systems physiologic or pathologic states. Content related to applied biochemistry and laboratory medicine can be found in the following areas of the UGME program:

| Principles of Biomedical Sciences | Nutrition: protein, lipids, carbohydrates, minerals, vitamins  
|                                   | Physiology  
|                                   | Pharmacology  
|                                   | Immunology  
|                                   | Pathology/Oncology: tumour markers  
|                                   | Genetics: newborn screening  
| Foundations of Clinical Medicine I-III | Haematology: hemoglobinopathies, coagulation disorders, other  
|                                   | Cardiovascular: lipid metabolism, biochemical markers of congestive heart failure, cardiac ischemia, other  
|                                   | Respiratory: arterial blood gas analysis, other  
|                                   | Gastrointestinal: biochemical markers of hepatic, pancreatic, other gastrointestinal diseases or presentations, bilirubin metabolism, nutrition assessment, other  
|                                   | Kidney/Urinary Tract: acid-base balance, electrolytes, urine testing, renal function, other  
|                                   | Musculoskeletal: autoantibody testing, acute phase response markers, synovial fluid analysis, other  
|                                   | Endocrine: biochemistry of pituitary, adrenal, thyroid, pancreatic islet, parathyroid glands, hypercalcemia, diabetic states, other  
|                                   | Reproductive: hormonal biochemistry in relation to puberty, pregnancy, and disease states.  
| Core Rotations of Clerkship Clinical Selectives | Laboratory Medicine plays a significant role in the diagnostic process used daily during clinical experiential rotations.  
| Clinical Electives Course |
| **Selected Topics in Medicine** | Applied biochemistry and laboratory medicine are included in presentation/disease specific sessions |