MLS Entry-Level Competencies

The educational experiences during the UTMCK MLS program are designed to ensure that students are educated and competent to enter the profession of Medical Laboratory Science while demonstrating high ethical and moral standards. At the completion of the UTMCK MLS program, students will be able to:

1. Perform and evaluate pre-analytical, analytical, and post-analytical procedures to ensure the quality of laboratory results.
2. Perform laboratory tests, analyze and verify results, and resolve common problems in all the major areas of the clinical laboratory.
3. Explain the principles and methods used in laboratory tests in all major areas of the clinical laboratory.
4. Explain the clinical significance of laboratory procedures in diagnosis and treatment of disease and maintenance of health.
5. Correlate information from different laboratory departments to verify results and/or resolve problems.
6. Evaluate patient results and suggest or select appropriate additional testing.
7. Determine the priority of laboratory requests and arrange the workload for optimal patient care and efficiency.
8. Obtain acceptable blood samples for laboratory tests using standard phlebotomy procedures.
9. Use quality assurance principles and practices to ensure the accuracy and reliability of laboratory information.
10. Perform preventive maintenance of equipment and instruments.
11. Use the principles of method evaluation to select new techniques and instruments.
12. Explain and apply the major principles and practices of laboratory administration, supervision, and budgeting.
13. Comply with all standard safety regulations and monitor changes in safety regulations.
14. Use educational methods to present information and develop instructional materials.
15. Use computer systems to produce documents, research information, communicate with others, and enter and retrieve laboratory information.
16. Communicate effectively and respectfully with laboratory personnel, other health care professionals, patients, and the public.
17. Demonstrate professional conduct and interpersonal skills with patients, laboratory personnel, other health care professionals, and the public.
18. Demonstrate ethical standards in all matters related to medical information and patient care.