

Marshall University
2010-2011 Undergraduate Assessment Report
Medical Laboratory Technician (MLT)

I. Program's Mission

The mission of the Clinical Laboratory Sciences Department is to provide competent laboratory professionals who are qualified to staff healthcare facilities and thus furnish the highest quality of patient care to our local and regional servicing area. The primary area serviced with our graduates is the Huntington tri-state area and other underserved areas of West Virginia, Ohio and Kentucky. These clinical laboratory professionals, utilizing state of the art equipment, provide the highest quality laboratory test results that provide 70-80% of the objective data needed for physicians to make accurate patient diagnoses. The Clinical Laboratory Sciences Department provides continuing clinical medical education for the region as required by professional organizations and healthcare facilities. In addition, it is an ongoing mission of the department to implement innovative programs to meet the dynamic needs of the medical community.

Part of the mission of Marshall University is to educate health personnel for the state of West Virginia and the Tri-State region. The MLT program is providing health care providers. As previously mentioned, most MLT graduates practice in the Tri-State region. Since the majority of the graduates received the clinical component of their education at local area hospitals, often these hospital vacancies are filled by Marshall University MLT graduates.

Program Goals:

Instructional Goals

1. Prepare graduates with attitudes, knowledge, and skills that prepare them for career entry into the clinical laboratory workforce as a Medical Laboratory Technicians (MLT).
2. Prepare graduates to continue learning advanced technical knowledge about human health and disease.
3. Prepare graduates with knowledge and experience necessary for national certification as a MLT.

Curriculum and Accreditation Goals

1. The MLT Program will maintain accreditation by the National Accrediting Agency for Clinical for Clinical Laboratory Sciences (NAACLS).
2. Faculty in the MLT program will continuously develop their general and professional knowledge and teaching skills through formal continuing education and personal study.
3. Faculty of the MLT program will continuously improve the MLT program curriculum to meet the changing needs of students, accreditation agencies, and prospective employer.
4. Faculty of the MLT program will provide opportunities for clinical faculty to develop teaching and evaluation skills in the clinical practicum setting.

Student Learning Goals

1. Require each student to have achieved at least minimum levels of proficient performance and knowledge in college level mathematics, human biology, and principles of chemistry before admission to the MLT program.

II. Program's Student Learning Outcomes

Refer to the attached chart

III. Assessment Activities

Refer to the attached chart

A. Learning Outcomes/Assessment Activities:

Student Outcome	Person or Office Responsible	Assessment Tool or Approach	Standards/Benchmark	Results/ Analysis	Action Taken
<p><i>1. Pre-clinical Outcome:</i> The student will demonstrate knowledge, skills and competencies that prepare them for entry into clinical practicum</p>	<p>CLS Faculty</p>	<p>Review of individual course grades in CLS , 200,210, 220, and 230 courses for Fall 2010 and Spring 2011</p>	<p>Students must achieve a minimum of 70% in all CLS courses in order to be eligible for clinical rotations</p>	<p>Of the 18 newly admitted students, 14 students successfully completed CLS courses with a minimum of 70% in preparation for the clinical rotations. 1 student was placed on probation from the program due to receiving below a 70% in both CLS 200 and 230 during Fall 2010 and 1 student voluntarily withdrew for medical reasons; 1 student was placed on probation due to receiving below a 70% in CLS 210 during Spring 2011 and 1 student voluntarily withdrew for personal reasons.</p>	<p>The two students who were placed on academic probation from the program returned to the program during the 2011-12 academic year and are currently enrolled in courses. Both students who left for medical or personal reasons chose not to return to the program.</p>

Student Outcome	Person or Office Responsible	Assessment Tool or Approach	Standards/Benchmark	Results/Analysis	Action Taken
<p><i>2. Clinical Practicum Outcome:</i> The student will demonstrate knowledge, skills and competencies to prepare them for entry into the workforce as a Medical Laboratory Technician.</p>	Clinical Faculty at hospital sites	Practical Exams in each Clinical Section (CLS 270, 271, 272, 273) Fall 2010 and Summer 2011	Minimum of 70% on all practical exams in sections	10 students were enrolled in clinical rotations during this time; 3 during Fall 2010 and 7 during Summer 2011; 9 students achieved above 70% on all practical exams; 1 student withdrew from rotations for personal reasons	The student who withdrew for personal reasons returned for rotations during Fall 2011 and is scheduled to complete the program in December 2011.
	Clinical Faculty at hospital sites MLT Clinical Coordinator	Blackboard final examination for each clinical rotation course	Students have a maximum of three attempts to achieve a minimum score of 70% on each Blackboard final examination at the end of each clinical rotation	9 of 9 students achieved a minimum score of 70% on each Blackboard final examination.	Content of MLT Blackboard exam material is continually reviewed and updated to more accurately reflect student learning outcomes
<p><i>Clinical Practicum Outcome, cont.</i></p>	Clinical Faculty at hospital sites	Assessment of Student Attitudes and Professional Socialization	Students must achieve a minimum of 70% on this assessment for each clinical rotation – assesses clinical characteristics such as student adaptability, application of knowledge, completion of assignments, cooperation, communication skills, etc. daily during each rotation.	9 of 9 students achieved above 70% on this assessment.	No action necessary

	<p>American Society of Clinical Pathology Board of Registry (BOR)</p>	<p>National Medical Laboratory Technician BOR Examination</p>	<p>100% passage of exam on first attempt</p>	<p>From the July 1, 2010 to June 30, 2011 time frame—5 students took the exam and 3 passed. Our pass rate for this period was 60 % and the National average for this period was 77.5 %.</p>	<p>Students encouraged to take MLT national registry examination as soon as possible after completion of program, however some students choose not to do so; in many areas students can work in the laboratory with the AAS in MLT and not have to have taken the registry examination. In this particular case, the two students who failed, one graduated in Summer 2010 a year prior to taking the exam, and one graduated in Fall 2008, almost 3 years prior to taking the exam for the first time. The student who had taken the exam 3 years after graduating had also not been working in the field.</p>
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IV. Overview of changes implemented in your program this past year based on results and planned action specified in last year's report:

The MLT faculty re-evaluated the Blackboard examinations for each clinical practicum section to ensure that they were more reflective of knowledge gained during CLS lecture courses and clinical rotations. The MLT program underwent accreditation during Fall 2010 and was awarded full seven year accreditation status effective April 2011 through April 2018.

V. Specify any changes/modifications made to your program based specifically on data obtained during Assessment Day Activities:

NA

VI. Assistance Needed:

The help of the Office of Assessment is requested to aid in designing a valid assessment survey or interview process that is appropriate for graduating MLT students.