

Marshall University
2008-2009 Undergraduate Assessment Report
Medical Technology (MT)

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 MT program is providing health care providers. As previously mentioned, most MT 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 MT 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 Scientist (MLS).
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 MLS.
4. Prepare graduates with the basis for continuing their undergraduate education in the medical technology Bachelor of Science degree program.

Curriculum and Accreditation Goals

1. The MT Program will maintain accreditation by the National Accrediting Agency for Clinical for Clinical Laboratory Sciences (NAACLS).

2. Faculty in the MT program will continuously develop their general and professional knowledge and teaching skills through formal continuing education and personal study.
3. Faculty of the MT program will continuously improve the MT program curriculum to meet the changing needs of students, accreditation agencies, and prospective employer.
4. Faculty of the MT 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 demonstrated at least minimum levels of proficient performance and knowledge of each clinical specialty studied in the pre-clinical portions of the program including advanced clinical hematology, clinical chemistry, clinical immunohematology and clinical microbiology as well as laboratory instrumentation and laboratory supervision courses.
2. Require each student to complete a senior capstone experience to learn introductory research methods to further prepare the student for entry level careers in Medical Technology.
3. Participation in MT graduate interview as part of assessment day activities each Spring.

Faculty Development Goals

1. The MT program faculty will maintain a continuing record of their personal academic coursework, professional continuing education or other educational activities undertaken.
2. The MT program clinical Program faculty will encourage continuing education activities of the clinical (Hospital based) instructors, and review such records for the MT Program accreditation file.
3. MT program faculty will meet annually for the purpose of improving course content, instructional effectiveness and overall curriculum.
4. MT program faculty will review multiple sources of information regarding performance of students, graduates, faculty and clinical facilities used by students will be evaluated and used to improve course content and overall curriculum.
5. MT program faculty will track and evaluate the performance by successive class graduates taking national certifying examinations to identify program strengths and weaknesses.
6. MT program faculty will strive to maintain high levels of instruction and instructional outcomes at affiliated hospital laboratories during the clinical practicum phase of the program.

7. MT program faculty will make curriculum and instructional changes to improve the program in response to information gathered as part of the assessment process.

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
<i>Pre-clinical Outcome:</i> The student will demonstrate knowledge, skills and competencies that prepare them for entry into clinical practicum	CLS Faculty	Review of individual course grades in CLS 410, 421, 464 and 460 courses for Fall 2008	Students must achieve a minimum of 70% in all CLS courses in order to be eligible for clinical rotations	1 students entered the pre-clinical courses and successfully achieved the minimum performance standard for eligibility for advanced clinical rotation.	
<i>Clinical Practicum Outcome:</i> The student will demonstrate knowledge, skills and competencies to prepare them for entry into the workforce as a Medical Technologist/Medical Laboratory Scientist.	Clinical Faculty at hospital sites	Practical Exams in each Clinical Section (CLS 472 and CLS 473) in Spring 2009	Minimum of 70% on all practical exams in all sections	1 of 1 students achieved above minimum standards.	
	Clinical Faculty at hospital sites MT Clinical Coordinator	Final Examinations (case study based) in each clinical section	Students have two attempts to achieve a minimum score of 70% on each final examination at the end of each clinical rotation	1 of 1 students achieved above minimum standards.	
	Clinical Faculty at hospital sites	Performance Evaluation	Evaluation of supervising clinical instructor in such areas as quality and quantity of work, application of knowledge, demonstrations of initiative, interpersonal relationships, communication, dependability and integrity, judgment and analytical ability	1 of 1 students achieved above minimum standards on evaluations.	
	American Society of Clinical Pathology Board of Registry	National Medical Technologist Exam	100% passage of exam on first attempt	Results from 2008 Annual Report: 2 of 2 passed for a 100% pass	Students are encouraged to take the registry examination as

				rate; National Pass rate of 82%	quickly after graduation as possible to ensure better passage rates.
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I. Overview of changes implemented in your program this past year based on results and planned action specified in last year's report:

The MT clinical rotation was re-evaluated by the faculty to ensure that they were more reflective of the level of training for a Medical Technologist. There are also plans during this year to convert the MT portion of our 2 + 2 career ladder program to an online program. Students will submit portfolios documenting clinical experience during the Fall semester prior to senior clinical rotations which will be evaluated by the faculty to determine the most appropriate clinical experiences for each student.

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

Senior exit interviews are always conducted during Assessment Day, and information obtained during these interviews was used to re-evaluate content of clinical rotation experiences.

III. Assistance Needed:

The help of the Office of Assessment may be requested to aid in designing a valid assessment tools as we transition this MT program to online over the upcoming year.