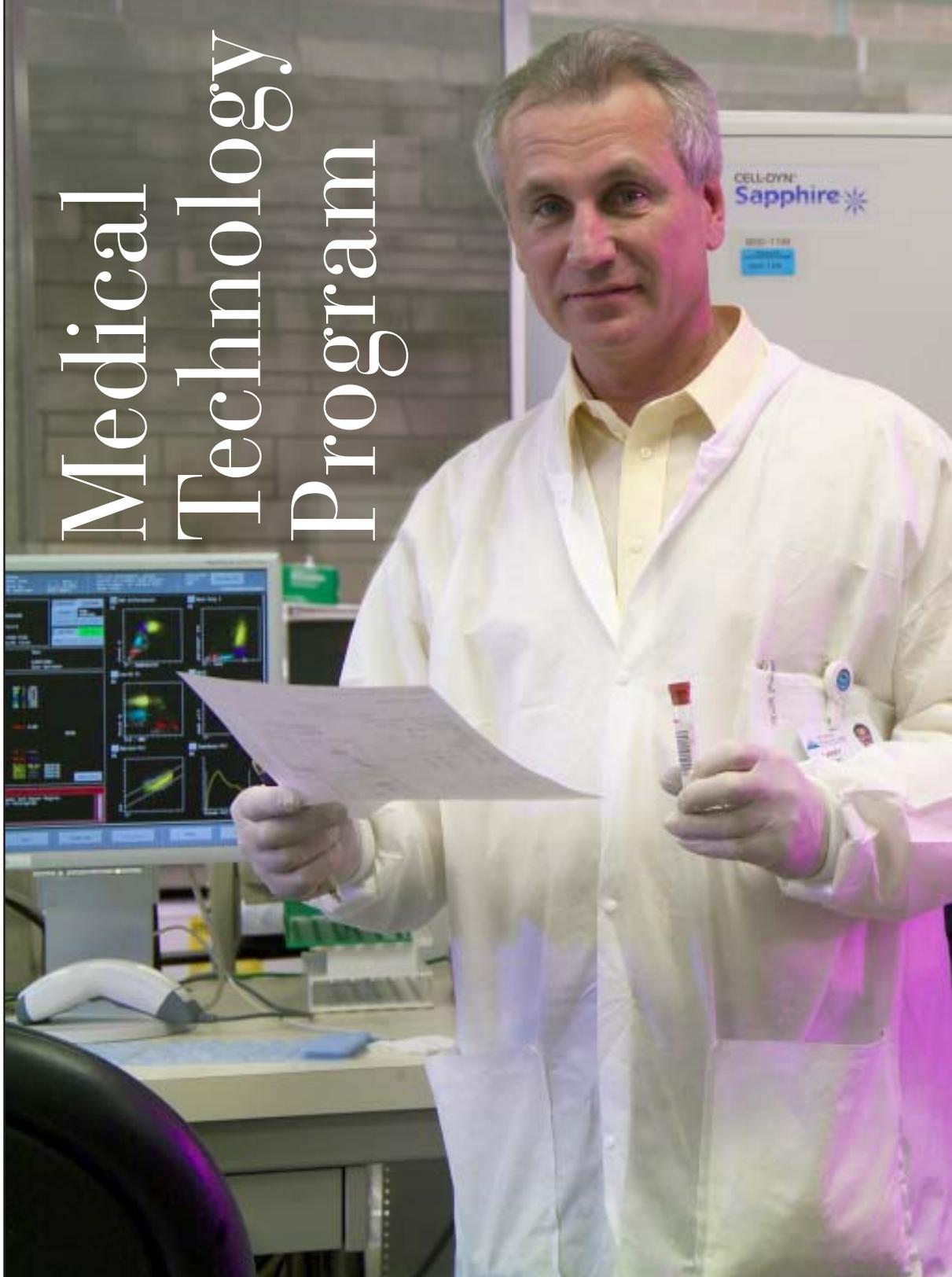


Medical Technology Program



Medical Technology Program

at Memorial Medical Center

is to provide a positive, professional, technically up-to-date educational and training experience that leads students to develop knowledge and skills which prepares them for successful completion of national certification examinations and for successful entry into the profession of Medical Technology.



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Delivering Cost-Effective Health Care in the Laurel Highlands.

Johnstown is located in the Laurel Highlands, which is nestled in the western slopes of the Allegheny Mountains in western Pennsylvania. The breathtaking scenery and fascinating history offer a unique combination of fun and education. The Laurel Highlands region, with its forests, mountains, lakes and rivers, abounds in recreational opportunities in all seasons.

Three ski resorts, a dozen hiking trails, including the 70-mile Laurel Highlands Trail, 15 miles of cross-country skiing trails in the Laurel Mountains, boating, fishing, swimming, snow mobiling and more are available. Johnstown also offers a wealth of cultural and sporting activities, including the All-American Amateur Baseball Association championship tournament and the Sunnehanna Amateur Golf Tournament of Champions. Professional ice hockey, with the Johnstown Chiefs, attracts thousands of fans to games in the War Memorial. The Johnstown Marathon and 10,000 meter races are annual. The Pasquerilla Performing Arts Center offers quality year-round performing arts events.

Memorial Medical Center is a 616 licensed bed, acute care hospital serving patients from Bedford, Cambria and Somerset Counties. Located in the Conemaugh Valley of the Laurel Highlands, the Hospital was established in 1891 with funds contributed by people the world over after the Johnstown flood of 1889. Almost from its inception, the hospital has been committed to education as a means of improving the quality of health care. Memorial Medical Center also offers residency training programs for physicians. Clinical sites within the Conemaugh Health System are utilized by colleges, universities and vocational programs within a tri-state area. Memorial Medical Center operates community health centers and a number of physician offices in outlying areas. Memorial Medical Center was designated a Level I Regional Resource Trauma Center by the Pennsylvania Trauma Systems Foundation in 1987.



Center is the evolution of the laboratory training program established in 1952 as a division of the department of Pathology at then Conemaugh Valley Memorial Hospital. Throughout its history the program has trained laboratory assistants, medical laboratory technicians and medical technologists for careers as credentialed laboratory professionals.

The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119.
Phone 773-714-8880 FAX 773-714-8886

Graduates are eligible to sit for a national certification examination which certifies them as a Medical Technologist MT(ASCP) registered with the American Society for Clinical Pathology or as a Clinical Laboratory Scientist CLS(NCA) certified by the National Credentialing Agency for Laboratory Personnel.

The laboratory science graduates are prepared to function in a variety of scientific environments such as hospital laboratories, physician office laboratories, public health laboratories and research laboratories, and often apply their skills as administrators, managers and educators.

The program maintains focus on a variety of technical and non-technical demands on today's laboratory professionals and prepares graduates to participate as important members of the health care delivery team.

- to:
- Provide a professional environment of encouragement, respect and open communication that fosters learning and professional development.
 - Provide human and technical resources that stimulate scientific curiosity and learning in individual students.
 - Employ a variety of teaching methods using appropriate technology to present the curriculum most effectively and efficiently.
 - Utilize outcome evaluation strategies to assure that the program continues to meet the needs of the students and the medical community.

Program Objectives

The objectives are to prepare graduates who:

- Perform technically and professionally according to the highest standards of laboratory practice
- Recognize the importance of continued professional development and participate in professional development as individuals and health care team members
- Communicate professionally with the public and other members of the health care delivery system
- Demonstrate knowledge and application of teaching and leadership skills as healthcare professionals.



only those candidates who give evidence that they will be able to fully meet the requirements and standards of the program. Preference for selection is given to those applicants who best demonstrate an overall aptitude for the practice of laboratory science.

The Medical Technology program reserves the right to terminate the enrollment of the student who does not meet academic standards, financial obligations or professional behaviors.

The Medical Technology Program complies with the Family Educational Rights and Privacy Act of 1974 as amended in 1976 (Public Law 93-380). Student records are subject to review by approved accrediting and financial reviewing bodies.

The Medical Technology Program reserves the right to make changes in any information within the Catalog without notice; however, when possible, advance notice will be given.

The Medical Technology Program is committed to equal opportunity and does not discriminate against qualified persons on the basis of race, color, religion, sex, age, national origin, ancestry, veteran status or disability.

Applicant Requirements

Qualified applicants are considered for acceptance into the Medical Technology Program when all application requirements are completed and a recommendation is rendered by the Student Selection Committee. Consideration shall be given to scholastic aptitude, academic achievement, personal qualities, and physical and emotional health necessary to fulfill the objectives of the program. Provisional admission status may be granted at the discretion of the Admission Committee.

The Program may accept up to 10 students each year. Applicants must be graduates of an accredited college or university or must be a candidate for a Clinical Laboratory Science / Medical Technology Degree program with all degree requirements completed except the clinical year curriculum.

The following minimum academic requirements must be included for consideration:

1. The applicant must have a minimum overall GPA of 2.5 and minimum Science and Math GPA of 2.5.
2. The applicant must have completed at least 16 semester hours (24 quarter hours) of Chemistry, including Organic Chemistry.
3. The applicant must have completed at least 16 semester hours (24 quarter hours) of Biology including Microbiology. An Anatomy and Physiology class and/or a Genetics class is recommended.
4. The applicant must have completed at least 3 semester hours of a college math class.

Program, the qualified person must submit a completed application form, any indicated application fees, a cover letter explaining the applicant's goals and interest in the program, three references from non-family members who can attest to the academic ability and character of the applicant and current transcripts from all academic institutions attended. An interview by the Student Selection Committee consisting of the Medical Technology Program director and at least one other faculty member is also required.

Admission

Provisional admission is given to those candidates deemed qualified by their academic record, completion of the application procedure and recommended by the Student Selection Committee.

Final Admission into the program is awarded upon the candidate's passing of a health examination, a urine drug screen and a criminal background check.

Attendance

Attendance at all classroom and clinical experience is required. Tardiness or failure to attend scheduled class and clinical experience will be handled according to the policy outlined in the Medical Technology Student Handbook.

Acceptable Student Behavior

Students accepted into the Medical Technology Program are expected to abide by the policies of the program and the institution and by all federal, state and local statutes governing the conduct of citizens. Students are also required to meet the standards of academic progress in the program. Failure to abide by the policies and statutes or attain academic standards will result in probation or withdrawal.



Center, the student must attain at least a 75% in each course at each six week progress report grading period and must attain at least a 2.75 GPA at the 12th and 24th week grading periods during the didactic portion of the program. During the clinical portion of the program, the student must attain at least a 75% grade in each clinical department including satisfactory evaluation from the clinical evaluators in psychomotor skill development and professional behavior development. Failure to meet the minimum performance for classroom work or clinical work will result in the student being placed on probation. After the **first probation**, a plan for remedial work will be developed by the program director and student. Successful completion of the remedial work, as defined by the faculty, will allow progress in the program, but the original grade will be used in the final grade calculation. Remedial work must be completed within six weeks of the date of the failing/unsatisfactory grade. If after remediation, a passing/satisfactory grade is not obtained, the student is involuntarily withdrawn. If a student falls into probationary status a **second time**, the previously described procedure is applied. Only two probationary periods are allowed. Failure to meet standards a third time will result in involuntary withdrawal from the program.

Transfer Credits

The applicant must adhere to the same application and admission procedures as all program candidates. Advanced standing is considered by the Student Selection Committee. Transfer credits are not utilized in the computation of the student overall grade point average.

Probation

Students placed on probation are required to meet with the Program Director to develop a remedial plan with a time schedule for completion. Failure to follow the plan or to successfully attain academic standards upon reassessment will result in involuntary withdrawal from the program.

Progress Reports

Reports are issued every sixth week during classroom rotation and at the end of each clinical rotation.

Grading Scale

<u>Grade</u>	<u>Percentage</u>	<u>Quality Points</u>
A	93-100	4.0
B	84-92	3.0
C	75-83	2.0
D	70-74	1.0
F	0-69	0
P - Pass	I - Incomplete	W - Withdrawal

Upon withdrawal, the student must return the Hospital ID card, library materials, parking permit, and any other Program/Hospital property. Arrangements must be made to meet financial obligations. Applicable tuition refund will be outlined by the financial aid officer according to policy. Appropriate forms must be obtained for each college or university that may be involved. Transcripts are released when all obligations are fulfilled.

Involuntary Withdrawal (Dismissal)

Failure to meet the standards of conduct of the Medical Technology Program may cause dismissal. Tuition will not be refunded. Reasons for involuntary withdrawal may include:

- Unsatisfactory performance in the classroom or clinical portions of the curriculum.
- Failure to meet the guidelines for remediation after probation.
- Failure to meet course or program requirements.
- Possession of illegal drugs on Hospital premises.
- Divulging confidential information except to proper authorities
- Violation of Academic Integrity
- Uncivil behavior to others
- Failure to meet the financial program obligations
- Non-attendance

Voluntary Withdrawal

A student who plans to withdraw from the program during any term must make an appointment to discuss his or her intentions with the Program Director and the Financial Aid Director. The student must submit a notification in writing to the Director and to college or university officials as necessary. The Director will document the withdrawal date based on the date of the letter of resignation and the last date of attendance for financial aid purposes and transcript purposes. Students may withdraw from courses two weeks prior to completion without incurring course failure.

Re-admission/Re-instatement Policy

Enrolled students who are called to military duty, or who withdraw due to personal illness or family emergency, may re-apply for admission to the next available class. The applicant's previous academic performance in the program will be considered with a newly completed application with current references and transcripts. Students are eligible for re-admission one time under this policy. Determination of program placement and the conditions under which the student may re-enter the program are examined in each case. Admission is not guaranteed.

Memorial Medical Center consists of 24 weeks of didactic classroom experiences and 24 weeks of clinical experiences at Memorial Medical Center Laboratory. For each of the courses listed, a semester hour is calculated as equivalent to 15-16 contact hours per 12 weeks.

First 12 Weeks of Classroom Instruction

Orientation - Required 0 Credit Hrs.

Orientation to the Medical Technology program and the hospital environment is conducted on the first two days of class - a total of 16 clock hours. The program includes safety, infection control, confidentiality and hospitality standards, introduction to laboratory mathematics and statistics and an introduction to the Profession and Ethics.

Hematology 6 Semester Hrs.

The study of the formed elements of the blood, their synthesis, analysis and correlations to health and disease. Testing methodologies, instrumentation, principles of testing and quality assurance are addressed.

Hemostasis System 2 Semester Hrs.

The study of the chemical elements of the human body that support and maintain the hemostatic system. The function of the system in health and disease including laboratory analysis and correlation of data with disease and therapeutic monitoring are studied. Current instrumentation and its application to the study of hemostasis are included with quality assurance.

Clinical Chemistry 6 Semester Hrs.

The study of chemical elements and compounds found in the human body in relation to health, disease states, organ function, medical therapy and abuse. Instrumentation used in the clinical laboratory is studied along with quality assurance programs for maintenance of instruments and testing systems.

Urinalysis and Body Fluid Analysis 3 Semester Hrs.

This course is a study of the renal system function, the substances routinely found in urine, the various disease states affecting the production of urine and the correlation with laboratory analysis. The principles of reactions, methodologies and quality assurance are addressed. Also studied are pleural, joint, seminal, spinal, amniotic and other fluids of clinical significance and the laboratory analysis of each in health and disease.

Educational Methods and Research 1 Semester Hr.

Examines teaching theories and methods culminating in the student preparing an educational unit suitable for presentation. Research types and methods are examined along with journal articles. Students apply research principles in the critiquing of quality and content of professional and scientific

Immunology and Serology 2 Semester Hrs.

This course examines the human immune system, its function and laboratory analysis in health and disease. Included are current technologies and instrumentation used in detection of antigens and antibodies in vitro.

Blood Banking and Compatibility Testing

6 Semester Hrs.

The study begins with a review of basic genetics, phenotyping, genotyping and its relation to compatibility testing for blood products. Standards for blood donors, blood collection, blood storage, reagent storage and compatibility testing, blood supply management and instrumentation are included in the study. Appropriate use of blood and blood products and transfusion reactions are incorporated into the study.

Medical Microbiology 6 Semester Hrs.

Medically significant bacteria of the human body are studied for their occurrence in health and disease. Organism morphology, colony morphology, quantitative, biochemical and molecular characteristics are studied to identify the significant bacteria. Antibiotic mechanisms, use in disease and clinical analysis are included.

Medical Parasitology 2 Semester Hrs.

This course examines the medically significant amoeba, helminthes, protozoa and insects found on the human body and in the intestines, blood and tissue. The sources and modes of transmission are correlated with the frequency of detection, testing methodologies and pathogenesis.

Clinical Mycology and Virology 1 Semester Hr.

Introduces the laboratory approach to identification and cultivation of clinically significant yeast and fungi. The study correlates occurrences of infections with metabolic and physiologic disorders. The introduction to clinically significant viruses is addressed by studying the classification of viruses, pathogenesis and detection by laboratory methods including molecular diagnostics.

Laboratory Leadership and Management

1 Semester Hr.

Study of leadership characteristics and communication skills necessary in the hospital environment. Management and organizational theories and skills needed for management of physical, human and capital resources in the laboratory are included.

24 Weeks of Clinical Experience

Students participate in clinical rotations in the clinical laboratories of Memorial Medical Center. The clinical experience is divided among the hematology / coagulation department, the clinical chemistry department, the

students who have:

- Attained an overall GPA of 2.75 or better for the entire program
- Completed a comprehensive examination with a grade of 75% or better
- Met the financial and procedural obligations to Medical Technology Program

Tuition and Fees

Tuition and fees are estimated for each academic year and are subject to change. A tuition and fee schedule is included in each application packet. Tuition and fees are due before the beginning of each term. Billing statements include a due date and the schedule for late fees. Bills may be paid by mail or in person at the Cashier's Office. Make checks payable to "Conemaugh." Failure to meet financial obligations may result in withdrawal from the program or withholding of a certificate of completion.

to the following scale based on the period of attendance:

- | | |
|-----------------------------------|------------|
| • Withdrawal within first 30 days | 80% refund |
| • Withdrawal in days 31 - 60 | 60% refund |
| • Withdrawal in days 61 - 90 | 40% refund |
| • Withdrawal after 91 days | No refund |

Students who are involuntarily withdrawn are not eligible for a tuition refund. Financial Aid Refunds are disbursed according to the written policies of the funding agency and are on file in the financial aid office.

Financial Aid

For details on all sources of financial aid, refer to the financial aid brochure and/or contact the financial aid officer at (814)-534-9890.





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Johnstown, PA 15905
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