

BROOKDALE COMMUNITY COLLEGE

# Medical Laboratory Technology Admission Packet





Dear Prospective Medical Laboratory Technology Student:

This packet was designed to provide you with information about the Medical Laboratory Technology program at Brookdale Community College. It includes information about the nature of the work of Medical Laboratory Technicians, job outlook, earnings, the Allied Health Admission Policy and the curriculum requirements for the Medical Laboratory Technology program.

The Medical Laboratory Technology program at Brookdale Community College is a collaborative effort between Meridian Health and Brookdale Community College. This program of study has been established to address workforce needs in our community and is part of a community based job training grant initiative.

The program includes 24 general education credits in the first year and 48 career study credits in the second year of the program. The career credits are taught in three consecutive semesters over an 11-month period beginning in the fall semester of each year. The classes for these last three semesters will be held on the Meridian Campus. Clinical placements will be provided at various hospital laboratories.

Before considering admission to the program, we suggest that you take time to investigate the profession. Observing Medical Laboratory Technicians working, speaking with Medical Laboratory Technology professionals, visiting the College Library, or searching the Internet, may help you to better understand the job requirements and the program.

Any questions regarding admission to the Brookdale Community College Medical Laboratory Technology program should be addressed to Beth Stryker in the Admissions office at [bstryker@brookdalecc.edu](mailto:bstryker@brookdalecc.edu). Questions about prerequisites and courses should be directed to Student Development Specialist (counselor) at 732-224-2586. If you have specific questions about the field of Medical Laboratory Technology or wish to observe a professional at a local hospital, you may contact either of us.

Good luck with your decision.

Sincerely,

Carol Schedel, MA, RRT  
Department Chair of Allied Health  
732-224-2692

Jayne Edman, EdD, RN  
Interim Dean of Science & Health Science



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## HEALTH SCIENCE PROGRAMS

The Health Science programs at Brookdale Community College include the Diagnostic Medical Sonography, Health Information Technology, Medical Laboratory Technology, Nursing, Radiologic Technology, and Respiratory Therapy programs. There is also access to Dental Assisting and Dental Hygiene programs through a cooperative agreement with the University of Medicine and Dentistry of New Jersey. The Dental Assisting program leads to a certificate.

Each of the Brookdale Health Science programs as well as the Dental Hygiene program leads to an Associate in Applied Science degree and is designed for immediate employment upon graduation. However, many students choose to continue in a bachelor's degree program. Some of the schools where Brookdale graduates have enrolled include Rutgers University, Monmouth University, Georgian Court College, Johns Hopkins University, and Seton Hall University.

So that students are prepared at an entry level in their field of choice, college laboratory and clinical laboratory experiences are integrated into each of the health science programs. Students have the opportunity to practice skills in the college laboratory and then apply these skills to patient care in a hospital setting.

Students enrolling in these programs must meet specific admission requirements in addition to applying to the College. Health clearance from a physician or an advanced practice nurse is required before the student can participate in clinical laboratory experiences.

**Disclaimer- The content and requirements of this admission packet may be altered at any time at the discretion of the College. This packet was checked for accuracy at the time of printing but should not be considered a contract between the College and the student.**



## MEDICAL LABORATORY TECHNOLOGY

### Nature of the Work

Laboratory tests have become increasingly important in the detection, diagnosis, and treatment of many illnesses and diseases. Medical Laboratory Technicians (MLTs) perform laboratory tests and procedures that provide information to help detect, diagnose, and treat disease. They perform these duties under the supervision of a medical laboratory technologist, scientist, pathologist, or other professionals that specialize in biological sciences. The profession takes scientific laboratory techniques and methodologies and applies them to patient specimens and clinical needs.

Clinical laboratory personnel are trained to work with infectious specimens. When proper methods of infection control and sterilization are followed, few hazards exist. Protective masks, gloves, and goggles often are necessary to ensure the safety of laboratory personnel.

As critical members of the healthcare team, Medical Laboratory Technicians are employed by hospitals, pharmaceutical companies, research labs, and medical and diagnostic laboratories. Although hospitals are expected to continue to be the major employer of clinical laboratory workers, employment is also expected to grow rapidly in offices of physicians, and all other ambulatory healthcare services. Hours vary depending on the size and type of employment setting. In large hospitals or in independent laboratories that operate continuously, personnel usually work the day, evening, or night shift and may also work weekends and holidays. Laboratory personnel in small facilities may work on rotating shifts, rather than on a regular shift.

### Job Outlook

The [Bureau of Labor Statistics](#) projects that employment of clinical laboratory workers is expected to grow 16% through 2018, faster than the average for all occupations. The volume of laboratory tests continues to increase with both population growth and the development of new types of tests. According to *Jobs Rated Almanac*, Medical Laboratory Technicians are very high on the list of best jobs, ranking 18 in a list of 250 jobs. Clinical laboratory science has a 25% job growth, good job security, and ranks #3 among health related professions.

### Earnings

According to the [Bureau of Labor Statistics](#) (released in May 2009), the national annual median salary for Medical Laboratory Technicians is \$37,860, based on geographic location. In New Jersey, the annual median salary for Medical Laboratory Technicians is \$43,230. Currently there is a shortage in many parts of the country, ensuring employment and higher salaries for graduates. With the current shortage of laboratory practitioners, wages are expected to rise higher than average. Further information can be found on the [Bureau of Labor Statistics](#) website.

## **CRIMINAL HISTORY BACKGROUND CHECKS**

Clinical agencies mandate criminal history background checks for all students engaged in patient care, and each student must undergo a criminal history background check, which requires a valid Social Security number. These checks are conducted by an external vendor, and the information is sent to the College and to clinical agencies. Agency personnel will evaluate the information they receive and, in their sole discretion, make the final determination as to each student's ability to continue to engage in patient care in their agency. If a student is denied clinical placement by any clinical agency due to criminal history information, that student will be dropped from the program.

## ALLIED HEALTH ADMISSION PROCESS

### Introduction

The objective of the admission process is to admit qualified applicants to the Allied Health Programs. A rolling admission process is used for this program; that is, completed applications are reviewed on an ongoing basis, and qualified applicants who have completed the entire admission process will be admitted until each class reaches capacity. When there are more applicants than seats for each class, a waiting list is kept in the Science & Health Science Division office.\* It is the responsibility of each applicant to verify his/her status on the waiting list with the Health Science Associate and to notify registration and the Science & Health Science Division office if there is any change in address.

Requirements for admission to the Medical Laboratory Technology program include:

1. Graduation from high school or a GED.
2. Completion of the Brookdale application.
3. Completion of the Medical Laboratory Technology application.
4. Completion of all remedial work as determined by the College basic skills placement test (Accuplacer).
5. Completion of high school biology and chemistry or the equivalent college courses.
6. Achievement of passing score on the Health Science entrance examination.
7. Attendance at an Information Session.
8. Completion of BIOL 111 (Anatomy & Physiology I), BIOL 112 (Anatomy and Physiology II), BIOL 213 (Microbiology), CHEM 136 (Introduction to Inorganic, Organic and Biological Chemistry) and MATH 131 (Math Statistics).

Two (2) copies of high school/college transcripts are required. An official copy is to be sent directly to the Admissions Office. The other copy should be brought with the student for the meeting with the student development specialist (science counselor). All communication with the Admissions Office should be addressed to:

Beth Stryker or Lynn Hodgetts  
Office of Admissions  
Brookdale Community College  
765 Newman Springs Road  
Lincroft, New Jersey 07738

[healthscienceadmissions@brookdalecc.edu](mailto:healthscienceadmissions@brookdalecc.edu)

**\*There may be a waiting list for the Medical Laboratory Technology program. Please contact Beth Stryker at 732-224-2330 or Lynn Hodgetts at 732-224-2275 for more information.**

## Application Process

1. **Complete the Brookdale Community College application.**
2. **Complete the Medical Laboratory Technology program application.**  
Return the application to the Admissions Office.
3. **Take the Accuplacer.** When you file a College application, you will automatically be scheduled for the Accuplacer, This test is used to determine readiness for college-level courses. It includes English, Mathematics, Reading, and Algebra. Students who do not pass a section(s) of the test must take the appropriate developmental course(s).

If a student has completed at least 24 college level credits including English Composition and a Mathematics course higher than elementary Algebra with a grade of "C" or better from an accredited college, this test may be waived. In order to obtain a waiver, contact the Admissions Office. For high school students, the Accuplacer may be taken in their senior year.

4. **Meet with your student development specialist (science counselor).** Within one week of taking the Accuplacer, you must contact your student development specialist (science counselor) to arrange a meeting to discuss your academic plans. High School students should schedule a meeting with their Brookdale science counselor before November of their senior year.
5. **Complete high school biology and chemistry** or equivalent college courses.
6. **Take the Health Science entrance examination for Allied Health students.** When all remedial work and high school biology and chemistry, or equivalent college courses, are complete and grades posted to your transcript, contact Beth Stryker at 732.224.2330 or Lynn Hodgetts at 732.224.2275 to get a pass for the Health Science entrance examination. All of the above steps must be completed before the Health Science entrance examination can be taken.

Students not achieving the cut-off score (50% composite score) on the Health Science entrance examination for Allied Health students, should contact their student development specialist as soon as possible. Students may retest after a month; however, it is recommended that any courses which could improve test results be completed prior to re-testing. High school students may take the Accuplacer after the Health Science entrance examination has been scheduled.

7. **Attend an Information Session.** Once you have successfully completed the above steps you will be scheduled for an Information Session, a **mandatory step** in the admission process. The purpose is to provide students with more specific information about the program and the opportunity for students to raise questions and share concerns. During the Information Session, students will complete a questionnaire used by the Science & Health Science Division office. High school students may attend the Information Session during their senior year.
8. **Read the Criminal History Background Check Information on Page 4**  
Criminal history clearance is required to begin the program.
9. **Be placed on the waiting list.** After you have attended the Information Session your name will be placed on the waiting list. Placement on the waiting list will be prioritized by information session and then by the date that the Medical Laboratory Technology program application is received in the Admissions Office.

10. **Complete the following prerequisites:** Anatomy & Physiology I (BIOL 111), Anatomy & Physiology II (BIOL 112), Microbiology (BIOL 213), Introduction to Inorganic, Organic and Biological Chemistry (CHEM 136) and Statistics (MATH 131) **MUST** be completed prior to admission into the Medical Laboratory Technology program.

### **Admission into the Medical Laboratory Technology Program**

1. **Receive an acceptance letter and Intent to Enroll form.** Students will be notified by mail of acceptance into the Medical Laboratory Technology Program. At that time the student will receive an Intent to Enroll form.
2. **Return the Intent to Enroll form.** If a student does not return the Intent to Enroll form, he/she will be dropped from the list and must reapply for admission. The Intent to Enroll form **must** be returned to the Science & Health Science Division office within the time specified on the form. **No student's admission is processed until the Intent to Enroll Form with the starting date identified has been received in the Health Science Division office.**
3. **Register for classes.** No student may register for any of the career studies courses: MDLT 151, MDLT 152, MDLT 153 and MDLT 154, without a registration pass and approval from a Student Development Specialist (counselor).

### **Deferrals**

1. Students may defer admission to the Medical Laboratory Technology program twice without losing their place on the waiting list. If a student requests a third deferral, the student's name will be placed at the end of the waiting list.
2. Students who drop their course less than 30 days prior to the first day of class will be placed at the end of the waiting list.
3. Students who defer admission more than 30 days prior to the first day of class will maintain their place on the waiting list if it is their first or second deferral.

### **Transfer of General Education Courses**

There is no time limit on the transferability of general education courses with the exception of Microbiology and Chemistry, which must have been taken within the last seven (7) years. Transfer courses must come from an accredited institution. Medical Laboratory Technology courses can be transferred only if they have been taken in the last two (2) years, and clinical skills must be validated in the College Lab. **All Medical Laboratory Technology professional courses must be completed in three (3) consecutive years.**

#### **Transfer of Microbiology and Chemistry courses must meet the following criteria:**

1. Transfer course must come from an accredited institution.
2. A lab component must have been included in the course.
3. The course description is congruent with the requirements of the relevant Brookdale course.
4. A grade of "C" or better was earned.
5. The course was completed within the last seven (7) years.

### **STARS Admission**

Two seats per year are held for NJ STARS students who have met the admission requirements. Students who refuse an offer of admission will have one additional opportunity for admission before they are placed at the end of the waiting list.

## **PHILOSOPHY**

The faculty believes that Medical Laboratory Technology is the application of principles guiding the performance of a full range of diagnostic laboratory tests on a variety of specimens in a laboratory setting. The Medical Laboratory Technician works with the physician to provide the information necessary for the diagnosis and treatment of illness and disease.

Under the direction of the physician, the Medical Laboratory Technician is required to use considerable independent clinical judgment in the performance of clinical laboratory tests. The Medical Laboratory Technician interfaces with members of the interdisciplinary healthcare team helping to maintain the patient in optimum health, providing baseline and ongoing laboratory results. Using a problem-solving approach, the Medical Laboratory Technician assesses, analyzes, implements, and evaluates the action plan. Additionally, the Medical Laboratory Technician is involved in quality assurance activities.

Medical Laboratory Technicians function in an acute care or outpatient setting and communicate effectively with members of the interdisciplinary healthcare team and peers. They perform services in accordance with accepted standards of practice, exercise appropriate ethical/legal conduct and function in a competent manner.

Congruent with the philosophy and goals of Brookdale Community College, the faculty believes the educational process accounts for differences in student aptitude and cognitive style, clearly specifies learning outcomes, and provides objective measures of achievement by which student progress can be assessed and outcomes ensured.

Based upon these fundamental premises, the Medical Laboratory Technology program at Brookdale Community College strives to provide learning experiences that are student-centered and competency-based. A student-centered curriculum recognizes that differences in cognitive styles among students, necessitates access to alternate learning resources beyond those traditionally provided, and understands that faculty members are skilled facilitators and managers of the learning process. Finally, the faculty believes that learning is a lifelong process, during which the learner continues personal as well as professional growth.

### **Program Learning Outcomes**

On completion of the Medical Laboratory Technology program at Brookdale Community College, graduates will be able to:

1. Assess, analyze, implement and evaluate laboratory tests and results, incorporating measures of quality assurance.
2. Utilize critical thinking as a framework for decision making, analyzing information and solutions and solving problems.
3. Practice effective communication skills with clients, and members of the healthcare team.
4. Demonstrate legal and ethical accountability for professional practice.
5. Incorporate principles from social sciences, biological sciences, and humanities into the practice of a Medical Laboratory Technician.
6. Practice within the limits of a nationally certified Medical Laboratory Technician.

## **Program Purposes**

1. To prepare graduates possessing knowledge and skills required for the role of a medical laboratory technician.
2. To provide students with a program of learning that fulfills the requirements of an associate degree in medical laboratory technology.
3. To help provide for the health care needs of the community by graduating individuals eligible to practice medical laboratory technology.
4. To provide a broad-based humanistic experience for the purpose of effecting self actualization and ongoing personal development as a health care participant and a member of the community.

# Medical Laboratory Technology A.A.S. Degree

This program prepares students for entry level positions as Medical Laboratory technicians. Students will work with a variety of specimens including blood, urine, and other body fluids and tissues. They will learn to perform laboratory techniques and methodologies and how to apply them to patient specimens and clinical needs. Students will demonstrate knowledge of how to interpret the tests and procedures to provide information that will help detect, diagnose, and treat disease. Clinical experiences are required of all students.

Medical Laboratory scientists are critical members of the health care team. Graduates are employed by hospitals, pharmaceutical companies, research labs, physicians and in community based medical laboratories. Upon completion of the program the student will be eligible to sit for the national certification exam administered by the American Society of Clinical Pathology (ASCP), 33 West Monroe Street, Suite 1600, Chicago, Illinois, 60603, (312) 541-4999.

Specific admission criteria for the program are outlined in the college catalog. Separate policies exist for the Medical Laboratory Technology program, including grading. These policies can be found in the Medical Laboratory Technology Handbook.

All MDLT courses will be taken at Meridian Health.

## Graduates of this program will be able to:

- ▶ Assess, analyze, implement and evaluate laboratory tests and results, incorporating measures of quality assurance
- ▶ Utilize critical thinking as a framework for decision making, analyzing information and solutions and solving problems
- ▶ Practice effective communication skills with clients, and members of the health care team
- ▶ Demonstrate legal and ethical accountability for professional practice
- ▶ Incorporate principles from social sciences, biological sciences, and humanities into the practice of a medical laboratory technician
- ▶ Practice within the limits of a nationally certified medical laboratory technician

## Requirements

### General Education – 24 credits as follows:

Code	Course	Credits
BIOL 111	Anatomy & Physiology I	4
BIOL 112	Anatomy & Physiology II	4
ENGL 121	English Composition: Writing Process	3
ENGL 122	English Composition: Writing & Research	3
	OR	
SPCH 115	Public Speaking	3
PSYC 106	Introduction to Psychology II	3
MATH 131	Statistics	4
	Humanities	3

### Career Studies – 48 credits as follows:

BIOL 213	Microbiology	4
CHEM 136	Introduction to Inorganic, Organic and Biological Chemistry	4
MDLT 151	Clinical Microbiology I	3
MDLT 152	Clinical Hematology I and Phlebotomy	4

MDLT 153	Clinical Chemistry I	3
MDLT 154	Immunohematology I	3
MDLT 251	Clinical Microbiology II and Immunology	4
MDLT 252	Clinical Hematology II	3
MDLT 253	Clinical Chemistry II and Urine	4
MDLT 254	Immunohematology II	3
MDLT 261	Clinical Microbiology III	3
MDLT 262	Clinical Hematology III	3
MDLT 263	Clinical Chemistry III	3
MDLT 264	Clinical Management Education and Research	2
MDLT 265	Hemostasis	2

## Degree Audit

Your progress toward your degree is available through Web Advisor. Refer to page 23 for details.

**Credits required for degree: 72**

## Suggested Sequence – Medical Laboratory Technology Program A.A.S.

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. Students must satisfy specific requirements in order to be admitted to this program. See Admission to Health Sciences Programs page 15 in the catalog.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1</b>		<b>SEMESTER 2</b>	
BIOL 111	4	BIOL 112	4
CHEM 136	4	MATH 131	4
PSYC 106	3	Humanities <sup>(1)</sup>	3
ENGL 121	3	ENGL 122 or SPCH 115	3
	<u>14</u>		<u>14</u>
<b>SUMMER TERM</b>			
BIOL 213	4		
<b>SEMESTER 3</b>		<b>SEMESTER 4</b>	
MDLT 151	3	MDLT 251	4
MDLT 152	4	MDLT 252	3
MDLT 153	3	MDLT 253	4
MDLT 154	3	MDLT 254	3
	<u>13</u>		<u>14</u>
<b>SEMESTER 5</b>			
MDLT 261	3		
MDLT 262	3		
MDLT 263	3		
MDLT 264	2		
MDLT 265	2		
	<u>13</u>		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

## MEDICAL LABORATORY TECHNOLOGY PROGRAM ADMISSION CHECKLIST

- 1. Complete a Brookdale application.
- 2. Carefully review the Medical Laboratory Technology Program Admission Packet.
- 3. Complete a Medical Laboratory Technology Program application. Return the application to the Admissions office.
- 4. Take the Accuplacer Test (may be waived if student has completed 24 college credits including college-level math and English composition with a grade of "C" or better from another college).
- 5. Have a college transcript sent to Admissions if you are transferring courses. Transcripts must be official and students wishing to have previous credits evaluated toward Brookdale degrees are responsible for having transcripts sent to the Admissions office and informing their student development specialist that they would like their transcripts evaluated. Transcripts will not be evaluated until the student has successfully completed one semester at Brookdale.
- 6. Make an appointment with the student development specialist (science counselor). Questions about prerequisites and courses should be directed to your Student Development Specialist (science counselor) at 732-224-2586.
- 7. Complete all remedial work as determined by the College basic skills placement test (Accuplacer).
- 8. Complete high school biology and chemistry or the equivalent college courses.
- 9. Take the Health Science entrance examination for Allied Health students. When all remedial work and high school biology and chemistry, or equivalent college courses are complete and grades posted to your transcript, contact Beth Stryker at [bstryker@brookdalecc.edu](mailto:bstryker@brookdalecc.edu) or Lynn Hodgetts at [lhodgetts@brookdalecc.edu](mailto:lhodgetts@brookdalecc.edu) to get a pass for the Health Science entrance examination. **It is the student's responsibility to contact the Admissions office when all remedial work and high school biology and chemistry, or equivalent college courses are successfully completed. The passing composite score for the Health Science entrance examination is 50 percent or higher.**
- 9. Attend an Information Session. **Once you have successfully completed the above steps you will be scheduled for an Information Session by the Admissions office.** Attendance at the Information Session is a **mandatory step** in the admission process. A student's name will not be placed on the waiting list until he or she attends an Information Session.
- 10. **Complete the following prerequisites:** Anatomy & Physiology I (BIOL 111), Anatomy & Physiology II (BIOL 112), Microbiology (BIOL 213), Introduction to Inorganic, Organic and Biological Chemistry (CHEM 136) and Statistics (MATH 131) prior to admission.

**Disclaimer – The content and requirements of this checklist may be altered at any time at the discretion of the College. This checklist was checked for accuracy at the time of printing but should not be considered a contract between the College and the student.**



**Brookdale Community College**  
**MEDICAL LABORATORY TECHNOLOGY PROGRAM APPLICATION**

**If you have not applied for admission to the College,  
complete a College application before filling out this form.**

Complete all questions below. *All applicants must be matriculated students.*

LAST NAME	MAIDEN NAME	FIRST NAME	STUDENT ID NUMBER
STREET ADDRESS			PHONE NUMBER (HOME)
CITY	STATE	ZIP	PHONE NUMBER (WORK)

Please answer the following:

1. Are you a new student at Brookdale?  YES  NO
2. Have you completed high school?  YES  NO
3. Are you a NJ Stars student?  YES  NO
4. Do you have an equivalency certificate (GED)?  YES  NO
5. Have you taken the Basic Skills Test?  YES  NO
6. If not, when are you scheduled to take it? \_\_\_\_\_
7. Please list any other colleges attended \_\_\_\_\_  
\_\_\_\_\_
8. If you have 24 credits with a grade of "C" or above, were you given a Basic Skills Test Waiver?  YES  NO

The admission requirements for the Medical Laboratory Technology program include:

- Completion of a Brookdale application.
- Completion of a Medical Laboratory Technology program application.
- Completion of all remedial work as determined by the College basic skills placement test (Accuplacer).
- Completion of high school biology and chemistry or the equivalent college courses.
- Achievement of passing score on a Health Sciences entrance examination.
- Attendance at an Information Session.

**Completion of this form does not guarantee admission  
into the Medical Laboratory Technology Program**

**I hereby understand that the submission of this application does not result in my name being placed on the waiting list. I must successfully pass the Health Science entrance examination and attend an Information Session to be placed on the waiting list.**

Signature \_\_\_\_\_ Date \_\_\_\_\_