

Medical Laboratory Technology

Dear Medical Laboratory Technology Applicant,

This packet contains all the information you will need to successfully apply to the Medical Laboratory Technician Program.

- Application
- Evaluation Grid
- Essay Information Form
- Check List of Requirements

All forms and reports should be placed in a portfolio and turned into Asanda Mason in office B132E by April 1st of the current academic year. Example: If you are interested in applying for the class beginning in August of 2012, you will need to have your portfolio turned in by April 1st 2012.

If you are currently taking General Education courses that are required for the MLT program, you will need to complete the “Current Course Standing” form and have the instructor for that course sign and date it. For internet courses, have your instructor e-mail your course standing to you and submit a print out of the email with the portfolio.

It’s **your** responsibility to turn in all the forms and required paperwork with the portfolio. If you wish to mail your portfolio, send it to:

Ivy Tech Community College
8000 S. Education Dr
Terre Haute, IN 47802
ecockrum@ivytech.edu
Attention: Erin Cockrum

The Medical Laboratory Technician program has a limited enrollment based on clinical site availability. Application and/or completion of prerequisite courses **do not guarantee admission into the program.** Once all documentation has been received and your eligibility verified, the portfolios will be graded. The top 24 applicants will be awarded positions into the program. Notification will be sent out by the end of April.

Sincerely,

Janee Gambill MS, MT (ASCP)
Program Chair

PROGRAM PHILOSOPHY

The purpose of the Medical Laboratory Technology Associate Degree Program is to provide post-secondary education to serve the needs of the individual, the community, the state, and the nation. The program provides didactic and clinical experience that enables the student to develop definable job skills required to secure employment in the medical laboratory.

Learning occurs when it is relevant to student needs and goals; when there is a close correlation between theory and practice; when there is teacher-student interaction; and when learning is the active responsibility of the student.

The education of the student is the responsibility of the College where education is the primary function. College auxiliary services are available to the student during the program. The practical laboratory experience, and essential part of this education, is conducted within clinical laboratories.

College faculty plan, implement, and evaluate curriculum; clinical instructors guide and evaluate the clinical experience. The faculty and instructors teach through realistic correlation of principles and clinical experience.

The program strives to develop an individual who is competent in the present-day clinical laboratory environment, and who is adaptable to the changing technology in this occupational area.

From this philosophical base, the following goals are established for the Medical Laboratory Technology Associate Degree Program:

1. The program will provide relevant didactic and clinical experience for the graduate to achieve job entry-level competencies:
 - a. perform and understand the principles of the most frequently requested laboratory procedures
 - b. maintain appropriate quality control
 - c. recognize any routine problem or deviation which may arise
2. The College will maintain accreditation to provide the opportunity for certification of competency in the medical laboratory:
 - a. conform to accrediting requirements
 - b. implement and coordinate learning experiences to achieve competency necessary for certification
3. The program will be consistent with the current technology of medical laboratories in the community:
 - a. identify current laboratory procedures used in the community
 - b. incorporate appropriate principles, procedures and skills within the program
4. The program will promote personal, social, and professional responsibility:
 - a. identify professional attitudes and conduct
 - b. encourage participation in professional organizations
 - c. identify continuing education opportunities
 - d. develop effective communication skills

PROGRAM DESCRIPTION

The Medical Laboratory Technology Associate Degree Program, located at Ivy Tech Community College of Indiana, Terre Haute, is 21 months or 5 semesters in length. In addition to classroom and laboratory instruction, students receive experience in one or more of the following medical laboratories: MEDLAB at Union Hospital, Terre Haute; Terre Haute Regional Hospital - Terre Haute; MEDLAB at Union Hospital of Clinton, Clinton; St. Vincent-Clay Hospital, Brazil; Putnam County Hospital, Greencastle; Sullivan County Community Hospital, Sullivan; Greene County General Hospital, Linton; Daviess County Hospital, Washington; Reid Hospital, Richmond; IU Health Bloomington Hospital, Bloomington; Morgan Hospital and Medical Center, Martinsville, St. Vincent-Williamsport Hospital, Williamsport; Hendricks Regional Hospital, Danville; Paris Community Hospital, Paris, Illinois; IU Health Bedford Hospital, Bedford; and Richland Memorial Hospital, Olney, Illinois.

ACCREDITATION

The Medical Laboratory Technology Associate Degree Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). NAACLS is located at 5600 N. River Road in Rosemont, Illinois 60018-5119. They can be contacted at 773-714-8880 or www.naacls.org.

ADMISSION REQUIREMENTS

To be admitted to the College, a student must meet one of the following criteria:

1. Be a graduate of high school, **or**
2. Have successfully completed high school equivalency examination **or**
3. Have demonstrated an interest in and need for post-secondary occupational education as offered by the College

Enrollment Checklist

1. Submit an application (apply online).
2. Apply for Financial Aid.
*Complete the FAFSA and submit prior to March 1.
*Submit the FAFSA online at <http://ed.gov/>
*Apply for scholarships
3. Request transcripts to be sent to Ivy Tech
4. Take the COMPASS Assessment.
5. Obtain your student ID number
6. Attend the mandatory NEW Student Orientation (must attend before registering for classes).
7. Visit the Student Success Center to meet with your advisor and establish your Individualized Academic Plan.
8. Register for Classes

The college reserves the right to either refuse the admission or conditionally accept students who have been dismissed from colleges or universities for disciplinary reasons.

Admission to the Medical Laboratory Technology Program

Upon completion of procedures for admission to the College, the Admission Office forwards applicant's completed applications to the School of Health Sciences. Upon request of this application, the MLT Assistant sends a standard letter to the applicant, outlining further instructions for completion of the applicant's file. The letter states that this file must be complete before admission to the MLT Program will be considered. Admission to the College does not grant unrestricted admission to a program of the student's choice. To be considered for admission to the MLT Program, the applicant must also meet the following selection criteria:

1. Must be a least 17 years of age.
2. Must have graduated from high school with a GPA no lower than 2.0 (based on a 4.0) **or**
3. Must have a GED transcript, passing with an overall score of 50 or above with no score lower than 45 in any one area;
Or equivalent qualifying life experiences and/or maturity factors for those applicants who have been out of high school for over four years may be considered as partial fulfillment of requirements stated in 2 or 3 above.
4. Must have a College GPA of 2.0 or greater.
5. Must have taken the COMPASS and achieved a minimum score of 80 in reading, 70 in writing and 35 in Algebra.

If the applicant scores below the above minimum of the COMPASS, he/she is notified directly by the Advising Office that Academic Skills Advancement courses are needed. The applicant is advised, at the time of this notification, to contact the Student Success Center to arrange for enrollment in recommended skills development courses at the College. An interview is scheduled with each applicant who has a complete file. This interview is conducted by a member of the faculty of the MLT program or a counselor. The purpose of the interview is to further explain the MLT program to the applicant, to answer any questions the applicant may have and to advise and review the applicant's status if he/she has enrolled in recommended skills development courses at the College. At the time of this interview, applicants are also made aware of the personal qualities necessary for success in the profession, and given an applicant handbook.

Transfer credit from previous courses is granted on a course-by-course basis. In order to transfer credit, the final grade for the course must be no lower than "C." Advanced standing is granted through documented valid academic work. College policies for advanced standing and transfer credit may be found in the College catalog.

Using the above criteria, students are selected on the basis of the minimum requirements. Students who meet the above minimum requirements are encouraged to complete the application portfolio outlined in the Applicant Handbook.

REQUIREMENTS FOR GRADUATION

To graduate with an Associate of Applied Science Degree in Medical Laboratory Technology, students must fulfill the following:

- a. Earn a minimum of 70 credits.
- b. Satisfactorily complete all course work and receive a terminal grade.
- c. Complete an approved curriculum
- d. Satisfy all financial obligations due the College
- e. Earn a minimum cumulative grade point average of 2.0 for the courses, which contribute to the requirements of the Associate of Applied Science Degree
- f. Pass comprehensive final in each technical course (MEDL prefix) with a minimum of a "D" on the final exam.

MLT FAQ's:

Q. What should I do if I've already completed a college degree?

A. Have your official college transcripts sent to Terre Haute Ivy Tech to be evaluated. The evaluation will determine what classes will transfer and what additional courses need to be completed.

Q. How long is the MLT program?

A. The MLT program is five consecutive semesters, including the summer semester. However, because many students take general education classes before they actually begin the MLT classes, it often takes more than two years. MLT courses must be taken in the order presented on the curriculum page located on the Ivy Tech Home page.

Q. Do I have to drive to Terre Haute for the MLT courses?

A. Yes, the program is based in Terre Haute and students are required to attend classes here two to four days per week.

Q. Should I submit a portfolio after my General Education courses are completed or while taking my General Education classes? The APHY101 course must be completed prior to enrollment in the first semester of the Program as it is the prerequisite to BIOL201. Alternatively BIOL101 may also serve as the prerequisite for BIOL201. BIOL 201 must be taken in the first semester of the Program or prior to the first semester.

A. You should complete a portfolio as soon as you have interest in the MLT Program. The deadline for application (portfolio submission) is April 1 of each year.

Q. Do you offer MLT classes (MEDL prefix) at night?

A. MLT courses (MEDL prefix) are only offered during the daytime hours. General Education courses can be completed day, evening, or via the Internet.

Q. How many students are selected into the MLT Program each fall?

A. Students are selected into the program each fall, based on clinical availability. Normally the number of students selected is twenty-four.

Q. How much does the MLT Program cost?

A. On an average the MLT Program can cost between \$8,500. - \$9,500. This amount includes textbooks, classes and uniforms.

**Medical Laboratory Technology Program
Ivy Tech Community College
Wabash Valley Region**

APPLICATION

Name: _____

C0# _____

Address: _____

City: _____

State: _____

Zip: _____

Contact Phone: (_____) -- _____

Email: _____

Please check on of the following:

- I am interested in the Medical Laboratory Technology Program and will have all of my general education courses completed by the end of the summer semester. ***
- I am interested in the Medical Laboratory Technology Program but will not have all of my general education courses completed by the end of the summer semester.***

*APHY 101 or BIOL101 must be complete with a grade of D or above before enrolling in MEDL first semester courses. This is necessary to meet the prerequisite requirements of BIOL 201 in the first semester of the MLT Program. All other general education courses may be completed during the Program.

Evaluation Grid:

Name _____

Please fill in the courses you have or are currently taking. If you are currently taking a course, please complete the “Current Course Standing” form as well as this grid.

Course Number and Name	Term Taken (Fall, Spring, Summer)	Grade Received	Number of points.
IVYT 1XX , College Life and Success			
APHY 101 , Anatomy and Physiology I *			
BIOL 201 , General Microbiology *			
ENGL 111 , English Composition			
HLHS 105 , Medical Law & Ethics			
MATH 1XX , Math Elective*			
CHEM 111 or CHEM 101 , Chemistry I *			
COMM 101 or COMM 102 , Speech or Interpersonal Communications (circle one)			
PSYC 101 or SOCI 111 , Psychology or Sociology (circle one)			

* indicates a science or math course

For all non-science and non-math courses, A = 4 points, B = 3 points, C = 2 points, D = 1
 For science and math courses, A = 8, B = 6, C = 4, D = 2

Note: Basic skills classes, (courses below 100 level), will not count toward GPA.

Current Course Standing Form

This is to verify that _____ is currently enrolled
(Student Name)
in _____, _____ for the _____
(Course #) (Course Name) (Fall, Spring or Summer & Year)
semester, and at this point of the semester, has attained a grade of: _____.
(Letter Grade)

Faculty Signature: _____ Date: _____

Student Signature: _____ Date: _____

Online Course: e-mail instructor for grade and submit a print out of the email with the portfolio.

Current Course Standing Form

This is to verify that _____ is currently enrolled
(Student Name)
in _____, _____ for the _____
(Course #) (Course Name) (Fall, Spring or Summer & Year)
semester, and at this point of the semester, has attained a grade of: _____.
(Letter Grade)

Faculty Signature: _____ Date: _____

Student Signature: _____ Date: _____

Online Course: e-mail instructor for grade and submit a print out of the email with the portfolio.

Current Course Standing Form

This is to verify that _____ is currently enrolled
(Student Name)
in _____, _____ for the _____
(Course #) (Course Name) (Fall, Spring or Summer & Year)
semester, and at this point of the semester, has attained a grade of: _____.
(Letter Grade)

Faculty Signature: _____ Date: _____

Student Signature: _____ Date: _____

Online Course: e-mail instructor for grade and submit a print out of the email with the portfolio.

Students: Feel free to make copies of this form. You will need a form filled out by your instructor for each general education course, required for the MLT program, that you are currently enrolled in.

Essay Information Form

Essay

- An essay is to be included with the portfolio. The essay should be one or two pages in length, **TYPED** and double spaced. It should describe why you are interested in and want to be a part of the Medical Laboratory Technology Program.

CHECK LIST FOR MEDICAL LABORATORY TECHNOLOGY

College Admission Requirements:

1. Application to Ivy Tech Community College – Terre Haute Campus
2. Official College Transcript(s) if applicable
3. COMPASS taken or SAT/ACT Scores evaluated
4. If student is attending another Ivy Tech, please request student file to be sent to Terre Haute or submit items 1—3 to the Terre Haute campus to start a student file.

Program Requirements:

Place a check mark in each step as you proceed through the application process:

Step 1 _____ Complete the application page included in this packet, and submit it with the portfolio. Deadline is April 1st.

Step 2 _____ Write an essay report about why you want to be in the Medical Laboratory Technology Program.

Step 3 _____ Obtain copies of all transcripts (other colleges and Ivy Tech), to turn in with portfolio. Ivy Tech transcripts can be accessed through Campus Connect.

Step 4 _____ Submit the entire portfolio by April 1st. The forms should go in this order: Cover sheet with student name, application, evaluation grid, copy of all transcripts, current course standing form (must be signed), essay, and if you wish – any recommendations from employers or faculty.

You may mail your portfolio to:

Ivy Tech Community College
8000 S. Education Dr
Terre Haute, IN 47802
ecockrum@ivytech.edu
Attention: Erin Cockrum

Or deliver to B132 E.

MEDICAL LABORATORY TECHNOLOGY CURRICULUM
ASSOCIATE OF APPLIED SCIENCE IN MEDICAL LABORATORY TECHNOLOGY / 71-73 CREDIT HOURS

<u>First Semester</u>		<u>Cr. Hrs.</u>	<u>Prerequisites</u>	<u>Grade</u>	<u>Semester</u>
IVYT 1xx	Life Skills Elective	1-3	None	_____	_____
ENGL 111	English Composition	3	ENGL 025, ENGL 032	_____	_____
HLHS 105	Medical Law and Ethics	3	ENGL 025, ENGL 032	_____	_____
◆BIOL 201	General Microbiology	4	BIOL 101, BIOL 105, or APHY 101, MATH 015 or MATH 023	_____	_____
MATH 1xx	Math Elective	3	* Assessment	_____	_____
MEDL 101	Fundamentals of Laboratory Technology	3	ENGL 025, ENGL 032, MATH 015 or MATH 023, Program Chair Approval	_____	_____
MEDL 102	Routine Analysis Techniques	3	ENGL 025, ENGL 032, MATH 015 or MATH 023, Program Chair Approval	_____	_____
<u>Second Semester</u>					
APHY 101	Anatomy and Physiology I	3	ENGL 025, ENGL 032, MATH 015 or MATH 023	_____	_____
MEDL 201	Immunology Techniques	3	Program Chair Approval	_____	_____
MEDL 205	Hematology Techniques I	3	MEDL 101, MEDL 102, Program Advisor Approval	_____	_____
MEDL 222	Microbiology Techniques	3	Program Advisor Approval	_____	_____
<u>Select one of the following two courses</u>					
CHEM 101	Introductory Chemistry I	3	ENGL 025, ENGL 032, MATH 015 or MATH 023	_____	_____
CHEM 111	Chemistry I	4	ENGL 025, ENGL 032, MATH 035 or MATH 043	_____	_____
<u>Third Semester</u>					
MEDL 206	Hematology Techniques II	3	MEDL 205, Program Advisor Approval	_____	_____
MEDL 207	Chemistry Techniques I	3	CHEM 111, Program Advisor Approval	_____	_____
MEDL 227	Chemistry Techniques II	2	Program Advisor Approval	_____	_____
<u>Fourth Semester</u>					
MEDL 202	Immunoematology Techniques	3	MEDL 201, Program Advisor Approval	_____	_____
MEDL 215	Parasitology and Mycology	1	MEDL 222	_____	_____
◆MEDL 218	Clinical Pathology	3	Program Advisor Approval	_____	_____
<u>Select one of the following two courses</u>					
COMM 101	Fundamentals of Public Speaking	3	ENGL 025, ENGL 032	_____	_____
COMM 102	Introduction to Interpersonal Communication	3	ENGL 025, ENGL 032	_____	_____
<u>Select one of the following two courses</u>					
PSYC 101	Introduction to Psychology	3	ENGL 025, ENGL 032, MATH 015 or MATH 023	_____	_____
SOCI 111	Introduction to Sociology	3	ENGL 025, ENGL 032, MATH 015 or MATH 023	_____	_____
<u>Fifth Semester</u>					
MEDL 209	Routine Analysis Applications	1	MEDL 102, Program Advisor Approval	_____	_____
MEDL 210	Hematology Applications	3	MEDL 206, Program Advisor Approval	_____	_____
MEDL 212	Immunology Applications	1	MEDL 201, Program Advisor Approval	_____	_____
MEDL 213	Immunoematology Applications	3	MEDL 202, Program Advisor Approval	_____	_____
MEDL 221	Microbiology Applications	3	MEDL 222, Program Advisor Approval	_____	_____
MEDL 224	Chemistry Applications	3	MEDL 207, MEDL 227, Program Advisor Approval	_____	_____
<u>Recommended Supplemental Courses (not included in 71 hours)</u>					
CINS 101	Introduction to Microcomputers	3	ENGL 031	_____	_____
MEDL 287	Clinical Laboratory Science Review	3	Program Advisor Approval	_____	_____

◆ Capstone Course ◆Regionally Determined Course * Refer to course prerequisites for Assessment Batteries required.

ABBREVIATED COURSE DESCRIPTIONS

COURSE #	COURSE TITLE	CREDIT HRS.
MEDL 101	<u>Fundamentals of Laboratory Techniques</u>	3
Introduces elementary skills required in the medical laboratory. Includes laboratory safety, operation, and care of basic laboratory equipment, quality assurance, phlebotomy, reagent preparation, and related laboratory mathematics.		
MEDL 102	<u>Routine Analysis Techniques</u>	3
Studies principles, practices, and clinical laboratory techniques associated with the macroscopic and microscopic analysis of urine.		
MEDL 201	<u>Immunology Techniques</u>	3
Concentrates on serological tests and the principles and laboratory techniques associated with immunology and serology.		
MEDL 202	<u>Immunochemistry Techniques</u>	3
Studies immunochemistry theory and techniques. Includes detection of blood group system antigens and antibodies, donor screening, hemolytic disease of the newborn, and recommendations by the American Association of Blood Banks. Prerequisites: MEDL 101, MEDL 201, MEDL 205		
MEDL 222	<u>Microbiology Techniques</u>	3
Studies the principles, practices, and laboratory techniques associated with microbiology. Includes classification and identification of microorganisms and sensitivity testing. Prerequisites: MEDL 101		
MEDL 205	<u>Hematology Techniques I</u>	3
Presents basic principles and practices of laboratory techniques associated with hematology. Includes origin and maturation of cells, hemoglobin synthesis, and breakdown and complete blood count testing. Prerequisites: MEDL 101		
MEDL 206	<u>Hematology Techniques II</u>	3
Continuation of hematology laboratory techniques, principles, and practices. Emphasis placed in routine hematology procedures and selected special procedures and tests for evaluation of blood coagulation. Prerequisites: MEDL 101, MEDL 205		
MEDL 207	<u>Chemistry Techniques I</u>	3
Presents principles and procedures for chemical analysis of biological materials, instrumentation, and quality control. Included are carbohydrates, proteins, non-protein nitrogen, enzymes, kidney function testing, and bilirubin balance. Prerequisites: MEDL 101, CHEM 101		
MEDL 227	<u>Chemistry Techniques II</u>	2

Presents various disease conditions, discussing etiology, clinical symptoms, and related laboratory test results. Among conditions presented are anemias, leukemias, uncommon microbiological infections, transfusion reactions and autoimmune disorders. Case studies are used.

Prerequisites: MEDL 102, MEDL 201, MEDL 202, MEDL 204, MEDL 205, MEDL 206, MEDL 207, MEDL 208

MEDL 287 Clinical Laboratory Science Review Course 3

A comprehensive review of basic principles and concepts in Clinical Chemistry, Microbiology, and Hematology.

ENGL 111 English I 3

Demonstrated competency in writing, reading, and computation through appropriate assessment or successful completion of BSA writing course work.

SOCI 111 Introductory Sociology I 3

Demonstrated competency in writing, reading, and computation through appropriate assessment or successful completion of BSA program course work.

MATH 1XX Math Elective 3

Prerequisite: Demonstrated mathematics competency through appropriate assessment or successful completion of BSA algebra course work.

HLHS 105 Medical Law and Ethics 3

Presents ethics of medicine and medical practice, and legal requirements and implications to allied health professionals.

CHEM 111 Chemistry I 4

CHEM 101 3

Prerequisite: Demonstrated competency in writing, reading, computations, and basic science through appropriate assessments or successful completion of BSA program course work.

BIOL 201 Microbiology 4

Demonstrated competency in writing, reading, computations, and basic science through appropriate assessment or successful completion of BSA program course work.

APHY 101 Anatomy and Physiology I 3

Demonstrated competency in writing, reading, computations, and basic science skills through appropriate assessments or successful completion of BSA program course work.

COMM 101 Fundamentals of Public Speaking 3

Fundamental concepts and skills for effective public speaking: preparation and delivery of informative and persuasive presentations. Includes instruction in use of visual aids and critical listening.

COMM 102 Introduction to Interpersonal Communication 3

Focuses on the process of interpersonal communication as a dynamic and complex system of interactions. The course will stress the importance of understanding and applying interpersonal communication theory in work, family, and social relationships. Lecture/discussion format.

PSYC 101 Introduction to Psychology 3

Introduction to Psychology provides a general survey of the science of psychology. It includes the study of research methodology, emotion, biological foundations, learning and cognition, perception, development, personality, abnormal psychology, and social psychology.

St. Vincent Clay Community Hospital

812-442-2525

This affiliate is a 75-bed hospital located at 1206 East National Avenue, Brazil, IN, and contains a full-service laboratory.

Terre Haute Regional Hospital

812-237-1610

This affiliate is a 284-bed hospital located at 3901 South 7th Street in Terre Haute, IN. It contains a full-service laboratory.

Greene County General Hospital

812-847-5205

This affiliate is a 76-bed hospital located at Route 1 Box 1000, Lone Tree Road, Linton, IN, and contains a full-service laboratory..

Sullivan County Community Hospital

812-268-4311

This affiliate is a 118-bed hospital located at 2200 North Section Street, PO Box 10, Sullivan, IN, and contains a full-service laboratory..

Paris Community Hospital

217-465-4141

This affiliate is a 50-bed hospital located at 721 East Court Street in Paris, IL. It contains a full-service laboratory.

Putnam County Hospital

765-653-5121

This affiliate is an 85-bed hospital located at 1542 South Bloomington Street, Greencastle, IN, and contains a full-service laboratory

MEDLAB at Union Hospital

812-244-0200

This affiliate is a 345-bed hospital located at 1606 North Seventh Street in Terre Haute, IN. It contains a full-service laboratory.

MEDLAB at Union Hospital of Clinton

812-832-2451

This affiliate is a 56-bed hospital located at 801 South Main Street in Clinton, IN. It contains a full-service laboratory. Special tests and selected confirmatory procedures are forwarded to the Terre Haute facility.

Daviess County Hospital

812-254-2760

This affiliate is a 136-bed hospital located at 1314 East Walnut in Washington, IN. It contains a full-service laboratory.

Reid Hospital & Health Care Services

765-983-3134

This affiliate is a 200+-bed hospital located at 1401 Chester Boulevard in Richmond, IN. It contains a full-service laboratory.

Richland Memorial Hospital
618-395-7340

This affiliate is a 138-bed hospital located at 800 East Locust Street in Olney, IL. It contains a full-service laboratory.

IU Health at Bloomington Hospital 812-353-5602

This affiliate is a 297-bed hospital located at 605 West 2nd Street in Bloomington, IN. It contains a full-service laboratory

St. Vincent Williamsport Hospital
765- 762-4000

This affiliate is a small rural healthcare facility located at 412 Monroe Street in Williamsport, IN. It offers a full-service laboratory.

Hendricks Regional Health 317-745-3430

This affiliate is a 100+-bed hospital located at 1000 East Main Street in Danville, IN. it contains a full service laboratory. Students should report to Larry Brothers.

Morgan Hospital and Medical Center 765-342-6526

This affiliate is a 100+-bed hospital located at 2209 John R. Wooden Drive in Martinsville, IN..

ENTRY LEVEL COMPETENCIES OF PROGRAM GRADUATES

Upon graduation and initial employment, the graduate of the Medical Laboratory Technology Program should be able to demonstrate entry-level competencies in the following areas of professional practice:

- a. collecting, processing, and analyzing biological specimens and other substances;
- b. performing analytical tests of body fluids, cells, and other substances;
- c. recognizing factors that affect procedures and results, and taking appropriate actions within predetermined limits when corrections are indicated;
- d. performing and monitoring quality control within predetermined limits;
- e. performing preventive and corrective maintenance of equipment and instruments or referring to appropriate sources for repairs;
- f. applying principles of safety;

- g. demonstrating professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public;
- h. recognizing the responsibilities of other laboratory and health care personnel and interacting with them with respect for their jobs and patient care;
- i. applying basic scientific principles in learning new techniques and procedures;
- j. relating laboratory findings to common disease processes, and
- k. establishing and maintaining continuing education as a function of growth and maintenance of professional competence.

ESSENTIAL FUNCTIONS REQUIRED FOR THE MEDICAL LABORATORY TECHNOLOGY PROGRAM

Students in the Medical Laboratory Technology Program must be able to perform the following essential functions:

1. Read clinical textbooks and laboratory procedures and write legibly. (MLT students and graduates must perform procedures requiring them to follow written direction and subsequently to provide hand-written and/or computer-generated results.)
2. See through a microscope. (Microscopic work is included in the laboratory content areas of urinalysis, hematology, immunohematology, serology, and microbiology. Students must be sighted enough to perform the microscopic tasks required to complete the objectives.)
3. Discriminate color differences/variations. (Reading color chemical reactions, identifying microorganisms, and differentiating blood cells depend on the student's ability to see color, shape, and texture differences. The ability to see differences and changes in color is essential to complete required objectives.)
4. Use fine motor skills that allow the student to safely manipulate glass slides, tourniquets, needles, pipettes, and other small instruments. (MLT students must have the manual dexterity to handle and safely manipulate small objects to be able to complete required objectives.)

5. Communicate in a rational and coherent manner with patients and professional staff. (Effective communication is required to be part of the health care team. Required objectives can only be completed if written and/or oral communication is effective.)
6. Maintain composure when subjected to high stress levels and adapt effectively. (Clinical laboratories can be high stress areas when instruments malfunction, test results do not correlate, or work is piled up and results are required.)
7. Respond quickly and in an emotionally controlled manner in high stress or emergency situations. (High stress and emergency situations arise frequently in clinical laboratories. Examples include instruments and computers malfunctioning, outpatients fainting and/or children screaming during phlebotomy, and transfusion reaction scenarios in the blood bank.)

I have read and understand the above required Essential Functions.

Student Signature

Date

UNIVERSAL/STANDARD PRECAUTIONS EDUCATION

BLOODBORNE PATHOGENS

The Federal Occupational Safety and Health Administration has established OSHA standard 29 CFR 1910.1020. These federally mandated minimum requirements must be adhered to by Ivy Tech Region 07 students in both the clinical setting and on campus student laboratories. Students are strongly encouraged to take the Hepatitis B vaccine. Ivy Tech School of Health Sciences students who may come in contact with bloodborne pathogens and decline the vaccination series must sign and date the following declination statement. The cost of the vaccine, should the student decide to take it, would be at his/her own expense.

Waiver of Responsibility

I _____, as a responsible student in the Ivy Tech Community College of Indiana, Region 07, Health Occupation Program do agree to hold harmless the aforementioned college as well as Associated Affiliations. Further, I do not wish to receive the Hepatitis B vaccination, even though I have been counseled as to its availability and potential prophylactic effects. I have also been advised as to the risk of exposure to Hepatitis B associated with this clinical affiliation in a Health Occupation Program and specifically in the handling of patient specimens and in delivery of care to the patient.

Program _____

Student Signature _____

Date _____

Bloodborne Pathogen Information

With the increasing emphasis on Universal Precautions and avoiding contact with blood borne pathogens, I, as a student in a Health Occupation Program at Ivy Tech Community College of Indiana, do affirm and verify that I have read and received classroom instruction, literature, and been notified of the importance of following the procedures for avoiding contact with body fluids while in the classroom/laboratory and/or clinical affiliation.

Course in which information received: _____

Date: _____

Program in which student is enrolled: _____

Student Signature: _____

Instructor Signature: _____