PARKVIEW

Parkview Regional Medical Center
11109 Parkview Plaza Drive
Fort Wayne, IN 46845
260-266-1000

Parkview Hospital Randallia
220 Randallia Drive
Fort Wayne, IN 46805
260-373-4000

Parkview Huntington Hospital
2001 Stults Road
Huntington, IN 46750
260-355-3000

Parkview LaGrange Hospital
207 North Townline Road
LaGrange, IN 46761
260-463-9000

Parkview Noble Hospital
401 Sawyer Road
Kendallville, IN 46755
260-347-8700

Parkview Wabash Hospital
710 N. East Street
Wabash, IN 46992
260-563-3131

Parkview Whitley Hospital
1260 E. State Road 205
Columbia City, IN 46725
260-248-9000

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FOR YOUR HEALTH

Parkview Medical Laboratory Science Program

The Parkview Medical Laboratory Science / Clinical Laboratory Science Program, established in 1956, provides an up-to-date curriculum designed to prepare graduates with the skills and knowledge demanded of a professional medical laboratory scientist.

PARKVIEW

Faculty

Yi Zhuang, M.D., Medical Director

Brian Goff, MA, MLS(ASCP)CM, Program Director
Lecturer: Orientation, Education, Research, Management, Parasitology

Lisa Neyman, MT(ASCP)H
Blood Bank

Michelle Nolan, MT(ASCP)
Blood Bank

Lynn Subler, MLS(ASCP)CM
Chemistry

Tiffany Marthen, AMT
Chemistry/Special Chemistry/Immunology

Vickie Niblick, MT(ASCP)
Microbiology/Parasitology

Barbara Campbell, (PBT)ASCP, BGS
Phlebotomy

Leslie Chaparro, MLS(ASC)CM
Hematology/Urinalysis/Coagulation

Introduction

The Parkview Medical Laboratory Science Program, established in 1956, provides an up-to-date curriculum designed to prepare graduates with the skills and knowledge demanded of a professional medical laboratory scientist.

Parkview is a comprehensive health care facility serving northeastern Indiana, northwest Ohio and southern Michigan. A recognized leader in the health care industry, Parkview is among the largest hospitals in Indiana. The campus includes a hospital with over 470 beds, a continuing care center, a cancer center along with several other specialties.

For More Information

For additional information about admission or to secure an application form, write to:

Brian Goff, MA, MLS(ASCP)CM
Program Director
Parkview Medical Laboratory Science Program
brian.goff@parkview.com

Parkview Regional Medical Center
11109 Parkview Plaza Drive
Fort Wayne, IN 46845
Phone: 260-266-1504

Accreditation

The Parkview Medical Laboratory Science Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences:

5600 North River Road, Suite 720
Rosemont, IL 60018-5119
Phone: 773-714-8880 or 847-939-3597
Website: www.naacls.org

Parkview is accredited by The Joint Commission on Accreditation of Healthcare Organizations, is a member of the American Hospital Association and is licensed by the Indiana State Department of Health. Parkview Health Laboratories is accredited by the College of American Pathologists.

Mission Statement

The mission of the Parkview Medical Laboratory Science Program is to provide educational opportunities for qualified students wishing to pursue a career in medical laboratory science and contribute to health care needs in the Fort Wayne and surrounding area. Upon completion of the program, the students may earn a baccalaureate degree and are eligible to sit for national and state certification examinations.

General Objectives and Goals

After completing the Parkview Medical Laboratory Science Program, the student will reach these educational goals:

1. Performing Analyses
    a. Properly collects and handles all clinical specimens and instructs patients and allied health care personnel in specimen collection.
    b. States principles of clinical methodology and performs simple and complex analyses with accuracy and precision.
    c. Correlates test results to clinical disease and normalcy.
    d. Establishes and monitors quality control programs.
    e. States the basic principles of instruments utilized in the clinical laboratory and standardizes and troubleshoots them appropriately.
    f. Evaluates new methodology.
    g. Assumes responsibility for results, i.e., critically evaluates results and is willing to admit mistakes and repeat procedures.
2. Solving Problems
    a. Recognizes, identifies, and solves most technical problems relating to clinical laboratory methodology.
    b. Anticipates potential problem areas and develops alternatives.
    c. Evaluates a problem effectively and solves it efficiently.
3. Organization and Communication
    a. Utilizes effective, tactful and considerate communication with peers and customers.
    b. Develops personal schedules.
    c. Practices basic principles of ordering, purchasing, and maintaining stocks.
    d. Adapts to the situation.
    e. Keeps area neat.
    f. Maintains stability under stress.

Graduation and Certification

Students must pass a final exam to successfully complete the Parkview Medical Laboratory Science Program. Upon completion, students receive a graduation certificate. They are then eligible to pursue certifications offered by the Board of Certification of the American Society for Clinical Pathology, or other nationally recognized accreditation agency.

College Affiliations

Parkview Medical Laboratory Science Program is affiliated with the following academic institutions:

Anderson University, Anderson, IN

Ball State University, Muncie, IN

Defiance College, Defiance, OH

Indiana Wesleyan University, Marion, IN

Manchester University, North Manchester, IN

Miami University, Oxford, OH

Indiana University Purdue University at Fort Wayne (IPFW), Fort Wayne, IN

Purdue University, West Lafayette, IN

Taylor University, Upland, IN

University of St. Francis, Fort Wayne, IN

University of Indianapolis, Indianapolis, IN

Arrangements with additional institutions may be made on an individual basis. Students from affiliated institutions will be given preference unless there are extenuating circumstances.

Applicants with a Bachelor of Science degree from any accredited institution may also be considered for admission if the applicant meets all other admission requirements.

Immunology

This series includes three (3) weeks of lecture and two (2) weeks of clinical study that is included in the chemistry bench rotation. The bench rotation covers agglutination testing, fluorescent microscopy, and theory and practice of testing for immune response, both acquired and autoimmune, to invasion by bacterial and viral agents.

Management

A lecture series covering management functions such as scheduling, budgeting, and regulations/compliance is conducted.

Microbiology

Students devote seven (7) weeks of lecture and eight (8) weeks of clinical application to microbiology. Topics include diagnostic theory and practice, infection control, instrumentation, media preparation, mycobacteriology, mycology, susceptibility testing and virology.

Parasitology

Students are presented three (3) weeks of lecture and one (1) week of clinical work covering the theory and practice of parasite identification. This includes identification of those parasites that infect humans.

Phlebotomy (Clinical)

Following completion of phlebotomy lectures, students spend two (2) weeks in clinical phlebotomy.

Research

Students have a lecture series on statistics, method evaluation and research techniques.

Urinalysis

This session includes two (2) weeks of lecture and two (2) weeks of clinical study. During this course, students study chemical techniques, gastric analysis, instrumentation, microscopic techniques, routine urinalysis and special testing.

Special Rotations

Special rotations are planned to give the student understanding of other departments and services that the laboratory interacts with. These rotations include visits to Histology, Client Response, and the blood bank at the American Red Cross.

4. Supervision and Management
    a. Evaluates research reported in the literature and applies to own situation.
    b. Understands legal considerations of the laboratory including state and federal legislation and professional liability.
    c. Supervises support personnel and students.
    d. Evaluates performance of those they supervise.
    e. Respects roles of other members of the health care team.
5. Education
    a. Teaches students and support personnel at the bench level.
    b. Organizes and presents data orally.
    c. Participates in education and evaluation of students.
    d. Recognizes the need for life-long learning.

Program Outcomes

ASCP Board of Certification Exam: One of the main objectives of the Parkview Medical Laboratory Science Program is to provide students with an educational experience that will give them the best opportunity for success. This is evidenced by the 94% pass rate for the ASCP Board of Certification Exam over the last three (3) years. As a quality check, we compare the certification exam scores of our student to the average scores of all the hospital-based programs that have students taking the ASCP's Board of Certification Exam.

Average Certification Exam Scores 2015–2017

	Parkview	Hospital Based Programs
Blood Bank	527	526
Chemistry	555	540
Hematology	581	544
Immunology	497	525
Lab Operations	509	539
Microbiology	483	528
Urinalysis	376	534
Overall Score	522	532

Graduation, Attrition, and Placement Rates:

In the last three years (2015–2017) we have taken 18 students and have graduated 18 students (100% of the students who started the program). Of the 18 program graduates, 16 (88%) are currently working in medical laboratory science. Of the two not currently working in medical laboratory science, one immediately returned to school for more education to work in a non-medical field. One student moved overseas and is not working in the medical laboratory field.

Philosophy of the Program

The program is based on principles which prepare students to maintain the highest ideals of the Medical Laboratory Scientist profession.

A professional medical laboratory scientist is one who provides the physician with the scientific data necessary to aid in restoration of the sick to a healthy mind and body. The student must acquire skill, knowledge and understanding, as well as a sense of responsibility through observation, performance of laboratory tests, research and application of these tests to real situations.

The program is designed to prepare graduates to perform as professional members of a total health care team in any medical laboratory environment. Carefully planned rotation of classroom lectures and hands-on experience in a state-of-the-art medical laboratory prepares students to meet the challenges of society's health care needs.

Program Facilities

Through this program, students gain valuable experience a core hospital laboratory.

Computerized laboratory facilities provide a full range of services to enhance the educational process. With the support provided by phlebotomy teams and a client response center, the educational process is enhanced by the variety of cases from the services offered by Parkview Regional Medical Center. The Parkview Regional Medical Center offer services through our adult and pediatric trauma centers, a primary care stroke center, oncology center, and surgical care center.

The Parkview Regional Medical Center lab is staffed by 180 employees, including seven full-time pathologists and more than 70 certified technologists. A library offers students a wide variety of reference materials, journals and electronic media.

Course Descriptions

Orientation

A two (2) week orientation session includes lectures on the following:

- Phlebotomy
- Safety
- Client Sensitivity
- Computer
- Infection Control
- Lab Math
- Policies
- Compliance

Chemistry

The chemistry series includes nine (9) weeks of lecture and seven (7) weeks of bench that combines chemistry, special chemistry, and immunology.

Clinical Correlations

Case studies are presented, and the student must evaluate and correlate test results to obtain a total picture of the patient's disease state.

Coagulation

Students study the theory and practice of testing for coagulation mechanisms during two (2) weeks of lecture and two (2) weeks of clinical application.

Education

A lecture series will provide students with information on test writing, lecturing, objectives and clinical instruction. Students are required to present a lecture during this time.

Hematology

Hematology includes a rotation of six (6) weeks of lecture and seven (7) weeks of clinical study. Students gain experience in collecting, staining and counting cells in blood and other body fluids, techniques of sedimentation rates, reticulocytes, hemoglobin and hematocrit determinations, special stains and instrumentation. The series includes extensive study of differentials and observation of bone marrow procedures.

Immunohematology

During this time, students spend three (3) weeks in lectures and six (6) weeks in clinical study. Topics include antibody screening and identification, typing, blood banking theory and practice, and component therapy.

- Daily attendance, Monday through Friday, during the normal hours of operation for the program, is required. Normal hours of attendance are usually 6:30am to 3:00pm or 7:00am to 3:00pm. Occasionally, the student may have learning experiences on a different shift.
- Students must remain at the hospital until officially dismissed by the instructor and the Program Director.
- Breaks during class are at the discretion of the instructor.
- Excessive tardiness or absenteeism may lead to probationary status.

Dismissal

A student may be dismissed from the program for:

- Failure to maintain academic standards
- Failure to observe the program's policies
- Documented evidence of cheating or plagiarism
- Excessive absenteeism
- Insubordination

Appeal Mechanisms

If the student grievance is over an academic issue that is directly involved with the program, the grievance must be discussed with the individual instructor. If the grievance is not resolved, it may be taken to the Program Director for further action. Should a grievance remain, the Medical Director, Faculty Committee, Campus Advisor, and a neutral evaluator may be contacted. If the issue is one that involves work performed on the student's own time and as an employee of Parkview/Parkview Health Laboratories, then the procedure listed in the Employee Handbook will apply.

Student Employment (Service Work)

Once students have successfully completed a rotation, they may be given the opportunity to work as a paid student lab tech. Hours offered for service work are dependent on the needs of the laboratory. Each laboratory section manager will determine the work hours available for their area of responsibility. Service work hours are strictly voluntary and are in addition to the regular student day. Student service work is paid and will not be used to make up or shorten bench rotations. Students are not allowed to work more than 20 hours per week.

Students who want to work during the program year will need to show that they are in conformance with the requirements of the Immigration Reform and Control Act (IRCA) of 1986, and properly identify themselves and have proof of authorization to work in the United States.

Program Calendar

Classes begin each year in July. The program is 11 months in length. There are three breaks granted during the program year: one (1) week of fall break, two (2) weeks of Christmas vacation, and one (1) week of spring break.

The following holidays are observed:

- Memorial Day
- Thanksgiving
- Christmas
- Labor Day
- Day after Thanksgiving
- New Year's Day

Academic Prerequisites

All preclinical Medical Laboratory Science requirements must be completed before entering the program. Applicants must document that they have a bachelor's degree, will be eligible to receive a bachelor's degree at the completion of the program (3+1), or will be graduating with a bachelor's degree before the program starts. Documentation of the following are required of all applicants.

1. 16 semester hours (24 quarter hours) of biology, including a course in microbiology and a course in immunology (either as a separate course or as part of another course)
2. 16 semester hours (24 quarter hours) of chemistry, including at least one course in organic chemistry or biochemistry
3. One course in college-level mathematics
4. 90 semester hours (135 quarter hours)
5. Other recommended courses include quantitative analysis, anatomy and physiology, instrumentation, computer science, management and supervision, genetics, parasitology, medical microbiology, statistics and physics

Technical Standards (Essential Functions)

Technical Standards (Essential Functions) represent the essential non-academic requirements of the program that the student must master to successfully participate in the program and become employable. As an applicant to our program, you are requested to read the following technical standards. These standards are written to help facilitate a valid career choice and to ensure that the safety and health of students, the public and other health professionals are not compromised.

Visual Function: Sufficient visual acuity to:

- Identify microscopic structures
- Read charts, graphs, instrument printouts, complete reports, and enter computer data
- Observe patient conditions and inspect specimens for suitability
- Operate analytical instruments appropriately and safely

Motor Function: Sufficient fine motor function to:

- Obtain, manipulate and measure specimens safely and with precision
- Manipulate reagents, materials, instruments and analytical equipment according to established standards and procedures, safely and with speed and accuracy
- Perform multiple and repetitive tasks

Interactive Function: Sufficient interactive skill to:

- Effectively report, discuss or explain results to supervisors, physicians and other appropriate personnel
- Maintain a cooperative and productive working relationship with patients and other health professionals
- Exhibit compassion, integrity and concern for others

Emotional Health: Sufficient emotional health to:

- Respond quickly and efficiently in emergency situations
- Function effectively in stressful situations and complete all responsibilities
- Exercise sound judgment and display flexibility

Intellectual Function: Sufficient intellectual function to:

- Calculate, interpret, analyze, reason, evaluate and explain lab results and quality control
- Prepare reagents and materials properly with accuracy, speed and precision
- Solve problems, make critical judgments and initiate corrective action to ensure accuracy and reliability of results in a timely fashion

Withdrawal and Refund Policy

A student may feel the need to withdraw from the program for a variety of personal and family reasons. The Withdrawal Procedure is in place to facilitate this difficult decision so that the student can explore alternatives for completing their education.

Step 1. The student must initiate the withdrawal procedure. This will start with the student scheduling a meeting with the Program Director. At this time counseling and alternatives will be discussed. The Program Director will notify the Medical Director that there will be a meeting with the student who is withdrawing and ask if the Medical Director wants to be present at the time of the meeting, or meet with the student separately.

Step 2. The school requests that the student allow a one-week period for consideration before proceeding to Step #3.

Step 3. The student must submit a formal letter of resignation to the Program Director.

The refund deadline is three (3) months after the start of classes. Parkview will reimburse 75 percent up to four (4) weeks, 50 percent up to eight (8) weeks, and 25 percent up to 12 weeks after start of class. No refund is made following this deadline.

Book fees are not refundable. Refunds for students paying tuition to affiliated academic institutions will be made under the policies of each institution.

Rules and Regulations

Academic Standards

The Parkview Medical Laboratory Science Program believes that high standards of performance are a basis for quality education. All students are provided with written copies of school policies at the beginning of each year. They include the following:

- Students are considered to be “on probation” during the first three months of the clinical year.
- Students are expected to uphold the school’s honor system.
- Students must not obtain a failing grade in more than one course. If the student has a failing grade, the student must still show mastery of the course objectives.

Tuition Fees and Expenses

Tuition

For a 4 + 1 student or a student attending a college that does not charge tuition during the clinical year, tuition for the year is $3500 and is payable to Parkview Medical Laboratory Science Program.

Parkview has a tuition reimbursement agreement with many academic institutions. Students attending those schools pay tuition directly to them. Current fees are discussed at the interview. All fees are subject to change without notice.

Books

Students are required to purchase or rent their textbooks.

Uniforms

Lab coats designed to protect from exposure to blood and body fluids are furnished by the hospital. Students will need to purchase and wear royal blue scrubs.

Meals and Housing

Students must furnish their meals and housing. During hospital rotations, meals are available in the hospital cafeteria at personnel discounted rates.

Insurance

Students are responsible for any health care expenses and are strongly encouraged to have health insurance.

Students are covered under the hospital's liability insurance policy, although students may elect to purchase individual liability policies.

Medical Examinations

Each student will be required to pass a physical that is to be taken up to two weeks before the start of class. This physical will be provided by Parkview at a cost of $50–$60 to the student and will include a urine drug screen.

Certification Examinations

Students who successfully complete the clinical year and pass a final exam will be eligible to sit for the national certification examinations. The Board of Certification exam costs approximately $240. While passing the certification exam is a goal of the program for the students, graduation from the program is not contingent on passing the certification exam. Students graduate from the program based on their performance throughout the year and passing the program's final exam.

International Students

Upon applying to the Parkview Medical Science Program, international students must provide a transcript from the college/university that the student graduated from a transcript evaluation of degrees earned from a non-US college or university. This transcript evaluation must be from one of the transcript evaluation services listed in the ASCP certification procedures booklet. You can view and download the document for free from the American Society for Clinical Pathology's website (www.ascp.org).

Documentation of proficiency in English: The student may demonstrate proficiency in English in one of five ways:

1. Transcript of classes taken at an accredited US college or university
2. Successfully challenge the TOEFL exam with a score of at least 80 for the total exam
3. CGE: A minimum of a "B" in English
4. Successfully complete a college level English composition course at an accredited US institution with a minimum grade of "C-"
5. A minimum score of 6.5 on the IELTS

Photocopies of this documentation may be submitted with the application. **However, originals will need to be filed with the rest of the student paperwork upon acceptance into the program.**

Advanced Placement

Applicants possessing an Associate Degree in Medical Laboratory Science and/or experience working in a technical capacity at a clinical lab are eligible for advanced placement in the program's clinical curriculum. Education needs will be assessed on a case-by-case basis.

Selection Criteria

Parkview participates in the CIMLE Indiana Student Preference Match.

Results of the student selections are based on the following criteria:

1. Overall Grade Point Average (GPA)
2. Science GPA
3. References
4. Interview
5. Other relevant information, including previous hospital or health care experience, college laboratory work, honors and extracurricular activities

Student selection is nondiscriminatory with respect to age, race, color, creed, sex, national origin, sexual orientation, veteran status or disability.

Formal Application

Applicants' completed application and transcript(s) must be received by December 1 to be allowed to interview for the class starting the following July. Each applicant is responsible for submitting the following application materials to the program by December 15.

1. An official transcript from each college and/or university attended (the application and official transcript(s) must be received by December 1).
2. One reference from each of the following:
   a. Chemistry professor
   b. Biology professor
   c. Employer (if available, or another science professor or personal reference if the applicant has no work experience)
3. An interview to be scheduled by the student. The interview is usually conducted October through December.
4. An overall GPA of 2.7 on a 4.00 scale and a GPA of 2.7 in all biology and chemistry courses is needed to be considered for admission. In addition, no grade of less than a "C-" is accepted for a required chemistry or biology course.

Academic Credit

Parkview Medical Laboratory Science Program has 32 credit hours that will transfer back to the student's college or university. It is important to note that if the student needs the clinical year to count towards a degree, the student's college or university must be affiliated with Parkview's MLS program.

COURSE	NO.		DURATION (WEEKS)	CREDITS
Blood Bank	402	Bench Lecture	6 3	2 1
Chemistry	403	Bench Lecture	4 7	2 3
Special Chemistry	406	Bench Lecture	2 3	1 2
Coagulation	409	Bench Lecture	2 2	1 1
Hematology	412	Bench Lecture	7 6	3 2
Microbiology	415	Bench Lecture	8 7	3 2
Laboratory Practices	417	Combined	4	1
Education/Mgmt.	418	Combined	4	1
Parasitology	421	Bench Lecture	1 3	1 1
Immunology	424	Bench Lecture	2 3	1 2
Urinalysis	417	Bench Lecture	2 2	1 1
			Total Credit Hours	**32**