

DIGITAL
PROGRAM
GUIDE

**BACHELOR OF SCIENCE
IN MEDICAL LABORATORY
SCIENCES (BSMLS)**

Empowering Your Future
In Healthcare





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Explore the structure, outcomes, and opportunities offered through our Medical Laboratory Sciences program. Learn how this degree prepares you for a vital, purpose-driven role in healthcare diagnostics.

Discover how our hands-on training, guaranteed clinical placements, and expert faculty equip you for success in one of the most in-demand and essential fields in healthcare.

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Join one of the nation's most diverse universities and learn from expert faculty in the Department of Medical Laboratory Sciences—where faith, science, and hands-on experience prepare you for a meaningful career in healthcare.

03 Program Overview

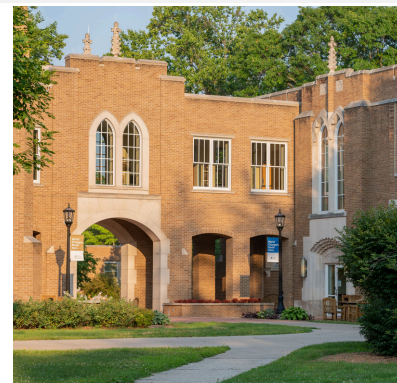
Explore program highlights, degree tracks, career opportunities, admissions requirements, and the growing demand for skilled laboratory professionals—all backed by accessible tuition and personalized support.

04 Student Life & Campus Experience

Discover the wonders of life on our scenic Michigan campus, where a diverse student body, welcoming community, and flexible housing options support your academic journey.

05 Faith & Spiritual Life

Explore how our faith-based environment encourages whole-person development and prepares you to serve with purpose and compassion.



**World
Changers
Made
Here.**



MESSAGE FROM THE CHAIR

Welcome to the Department of Laboratory Sciences at Andrews University!

“As Chair of the Andrews University Medical Laboratory Science program, I warmly invite you to explore our Bachelor of Science in Medical Laboratory Science. At Andrews, we combine rigorous academics, guaranteed clinical placements, flexible degree options, and a supportive, faith-based education.”

Our graduates benefit from a 100% employment placement rate, demonstrating the strength and quality of our program. Join us at Andrews University to transform your passion for science into a meaningful healthcare career—one where you truly make a difference.”

KAREN REINER, PHD, CMLS(ASCP)



Why Choose Andrews University



Why Choose Andrews University?

Since its founding in 1874, Andrews University has been dedicated to integrating rigorous scholarship, quality research, and practical Christianity into its curriculum. What began as a small school in Battle Creek, Michigan, with just 12 students, has grown into the most recognized Adventist educational institution in the world.

Named after John Nevins Andrews, a pioneering thinker and the first overseas missionary of the Seventh-day Adventist Church, the University embodies his legacy of thoughtful inquiry and compassionate action.

Andrews attracts students from across the U.S. and around the globe, offering a culturally diverse, faith-focused environment that prepares graduates to lead with both knowledge and purpose.

#1 
Top Private University
In Michigan

Out of 23 Michigan private universities
in 2024 Niche Best Colleges.

#1 
Best Christian
Colleges

Out of 12 Michigan Christian Colleges in
2024 Niche Best Colleges.

#1 
Top Ranked National
University For Ethnic
Diversity

Tied with University of San Francisco, and
out of 439 national universities ranked in
2024 U.S. News Best Colleges.

#1 
Best Small
Colleges

Out of 24 Michigan Small Colleges in
2024 Niche Best Colleges.



LIVE WHOLLY

Nurture Your Body, Mind & Spirit |

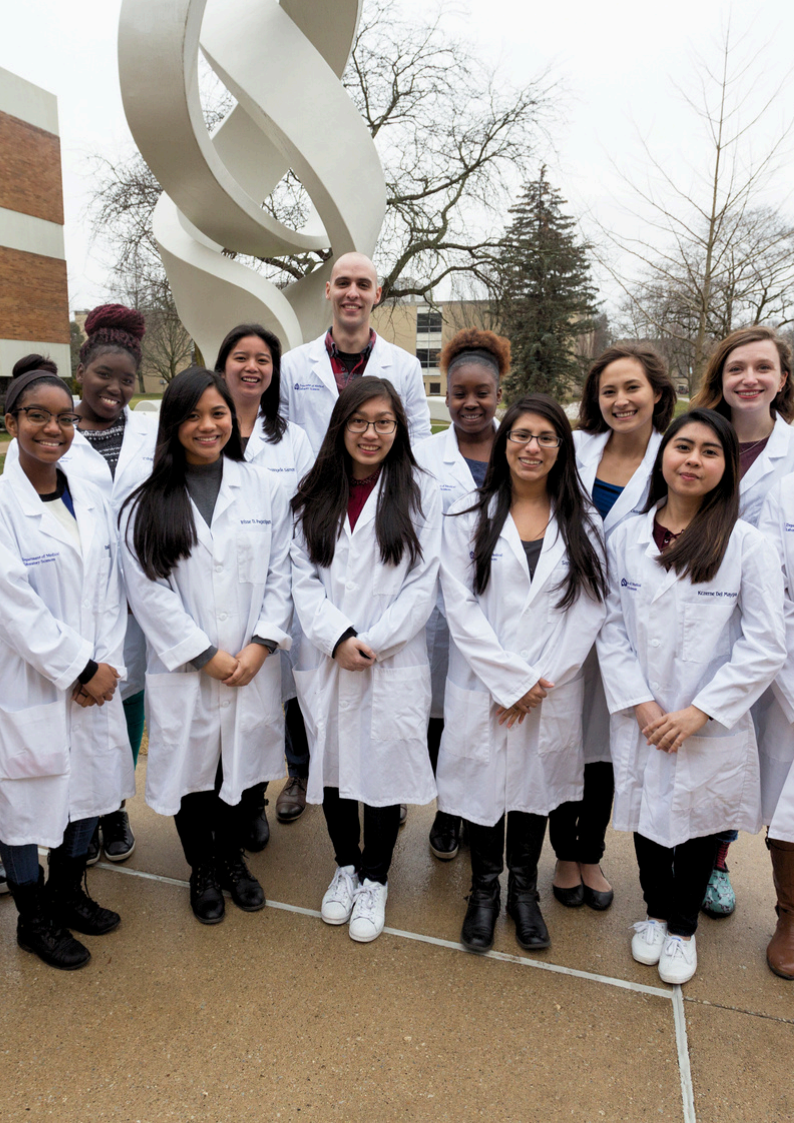
Andrews University has a foundational commitment to wellness. Our community promotes physical, mental and spiritual development.



EXPLORE INTENTIONALLY

Discover Your Future | Andrews is a place where our students can explore their futures to best understand and pursue God's plans for their lives.





LEARN DEEPLY

Create & Research | Andrews offers unparalleled opportunities for its students to study and learn in ways that consistently expand beyond specific assignments.



ENGAGE GLOBALLY

Understand Our World | Andrews offers students distinctive ethnic and cultural diversity opportunities that equip them to better understand and change the world.





"The program instructors were very understanding and knowledgeable and helped the students feel more comfortable. The program curricula were well designed to properly equip the students with the tools for clinical rotations, and even more importantly, every student is guaranteed the place at the clinicals. My only regret is that I did not know about the MLS program and Andrews University sooner. I am proud to have passed through MLS at Andrews University and grateful to them for the medical laboratory scientist that I am today."

Ikenna Anyabolu, Class of 2022



**Live Wholly
Explore Intentionally
Learn Deeply
Engage Globally**

Andrews University is the heartbeat of Adventist Education; the place where talents and ideas are inspired. We are a diverse and innovative community ready to help the next generation of World Changers deepen their knowledge, enrich their faith and change the world.

WORLD CHANGERS MADE HERE

Bachelor of Science in Medical Laboratory Sciences (BSMLS)

CAREER OUTLOOK

The Bachelor of Science in Medical Laboratory Sciences (BSMLS) program at Andrews University prepares students with the advanced laboratory skills and scientific knowledge needed for success in a rapidly expanding healthcare field.

According to the U.S. Bureau of Labor Statistics, employment for medical laboratory technologists is projected to grow by 5% from 2023 to 2033, driven by increasing demand for diagnostic testing. MLS professionals earn a median annual income of \$60,780*, making the field both high-demand and well-compensated.

Join us at Andrews University and secure your future in this essential healthcare career.



2023 Median Pay*

\$60,780 per year
\$29.22 per hour



Employment of medical laboratory technologists is projected to grow 5 percent from 2023 to 2033, faster than the average for all occupations.*

*Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Clinical Laboratory Technologists and Technicians, at <https://www.bls.gov/ooh/healthcare/clinical-laboratory-technologists-and-technicians.htm>



Andrews Medical Laboratory Sciences: Your Gateway To Opportunity

At the Andrews University Department of Medical Laboratory Sciences, we believe in the power of collaboration. Our partnerships with leading healthcare institutions, community organizations, academic institutions, and professional associations provide our students with unparalleled opportunities for hands-on experience, research, and professional growth.

Join us and benefit from a network that supports your journey to becoming a healthcare leader.





Guaranteed Clinical Placements

At Andrews University, we ensure that every Medical Laboratory Science student gains the real-world experience needed to thrive in the field. Our guaranteed clinical placements provide hands-on training in accredited medical laboratories, offering students the opportunity to apply their skills in professional settings before graduation.

Through our established partnerships with leading hospitals, diagnostic laboratories, and research facilities, students gain direct exposure to laboratory operations, advanced testing methodologies, and interdisciplinary collaboration with healthcare professionals.

These placements not only fulfill certification requirements but also give students a competitive edge in the job market. With guidance from experienced mentors, our students graduate with the confidence and expertise needed to excel in laboratory diagnostics, research, and beyond.

Build a **Strong** Foundation for **Medical** or **Dental School**

**Prepare for advanced healthcare education
with real clinical and diagnostic
experience.**

A degree in Medical Laboratory Sciences offers the ideal launchpad for medical or dental school. With hands-on experience in areas like immunology, clinical chemistry, microbiology, hematology, and transfusion medicine, you'll build the diagnostic expertise and critical thinking skills that admissions committees value. At Andrews, you'll gain the scientific depth and lab precision that set you apart—before you even take the next step.

"Because of my MLS background, the second year of medical school—especially the pathophysiology course—was a breeze for me."

Alwyn Harriott

BS Medical Laboratory Sciences, Class of 1998
Trauma and Critical Care Surgeon





Hear What Our Students Are Saying

“The fact that I was offered three jobs before I graduated says a lot about the Andrews program. I was able to have exposure to a little bit of everything and employers are very impressed by that.”

Trevor Zimmerman, Class of 2015

“The labs that we have in the MLS department are run so that we’re able to practice what we’ll be doing in the clinical setting; so they’re equipped with instruments that are exactly like the ones that we find in hospitals. They’re pretty much mini hospital labs where we’re able to practice everything from blood banking to microbiology to clinical chemistry; everything that goes under the MLS umbrella.”

Richard Ulangca, Class of 2017



Introduction to the Department of Medical Laboratory Sciences

The Department of Medical Laboratory Sciences at Andrews University provides an exceptional education rooted in Christian values, academic rigor, and clinical excellence. Our Bachelor of Science in Medical Laboratory Sciences (BSMLS) equips students with the knowledge and technical expertise to perform accurate, high-quality diagnostic testing.

With experienced faculty, modern laboratory facilities, guaranteed clinical placements, and small class sizes, we offer personalized attention and a collaborative, inclusive learning environment. Students develop skills in critical thinking, precise analysis, and ethical practice, preparing them to succeed in the rapidly evolving healthcare field.

Our graduates embody Andrews University's mission to "Seek Knowledge. Affirm Faith. Change the World," making critical contributions to healthcare worldwide.



A Christian
Approach to
Healthcare



Cooperative
Learning
Environment



A Caring
Family-Like
Atmosphere



Small
Class Size



Racial and
Ethnic
Diversity



Our Approach

At Andrews University's Department of Medical Laboratory Sciences, our Bachelor of Science in Medical Laboratory Sciences (BSMLS) program prepares skilled laboratory professionals through an integrated, Christ-centered educational approach. We combine rigorous coursework with guaranteed clinical placements, fostering technical proficiency, critical thinking, and ethical responsibility.

Small class sizes facilitate personalized mentorship from expert faculty, enabling students to become accurate, effective communicators in diagnostics. Our supportive, faith-based community equips graduates to serve as essential, innovative leaders dedicated to improving healthcare outcomes globally.

Students benefit from flexible degree pathways—including traditional, accelerated second-degree, and online completion options—ensuring that each student's academic journey aligns with their individual career goals and life circumstances. Our commitment to practical excellence and personalized learning means every MLS student graduates well-equipped for professional success and meaningful contributions to healthcare.



Accreditation

The Department of Medical Lab Sciences at Andrews University is accredited through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) located at 5600 N River Road, Suite 720, Rosemont IL 60018-5119





Our Faculty

At Andrews University's Department of Medical Laboratory Sciences, our dedicated faculty play a critical role in shaping skilled laboratory professionals. Students frequently comment on faculty being respected experts who offer personalized mentorship and are genuinely accessible for academic support beyond class time.

With extensive clinical experience, strong industry connections, and active involvement in research, our faculty provide students with high-quality instruction, creating a supportive and inclusive environment.

This approach ensures students develop robust analytical skills, clinical expertise, and the confidence to embody our mission: "Seek Knowledge. Affirm Faith. Change the World."



KAREN REINER

Chair, Program Director, &
Associate Professor

EDUCATION

PhD, Walden University
MSMLS, Andrews University
BSMT, Columbia Union College

BIOGRAPHY

Dr. Karen Reiner brings over two decades of academic and clinical experience to her role as Chair and Program Director of the Department of Medical Laboratory Sciences at Andrews University. Since joining the university in 2004 and assuming department leadership in 2014, Dr. Reiner has been instrumental in shaping the strategic direction of the program and leading initiatives in curriculum innovation, accreditation, and student engagement.

Dr. Reiner holds a Ph.D. in Public Health Epidemiology from Walden University, a Master of Science in Clinical Laboratory Sciences from Andrews University, and a Bachelor of Science in Medical Technology from Columbia Union College. She is certified by the American Society for Clinical Pathology (ASCP) and a member of ASCLS, and AABB.

Her teaching expertise spans both undergraduate and graduate levels, including courses in Immunohematology, Transfusion Medicine, Clinical Microbiology, Immunology, Virology, Laboratory Management, and Research Methods. As a seasoned educator, she has served as an academic advisor and research mentor for hundreds of students and is deeply invested in their academic and professional development.

In addition to her teaching and leadership roles, Dr. Reiner has been a national voice in laboratory science education through her service as a NAACLS site visitor and self-study reviewer, and as a frequent presenter at national conferences such as the Clinical Laboratory Educators Conference (CLEC). Her contributions to the field include peer-reviewed publications, educational tool development, and extensive involvement in professional consultation and accreditation processes.

Before transitioning to academia full-time, Dr. Reiner held clinical positions as a generalist medical technologist and laboratory supervisor, gaining hands-on experience in areas such as clinical chemistry, hematology, microbiology, and transfusion services. Her career reflects a unique integration of clinical expertise, leadership, and scholarly achievement.

Dr. Reiner is especially proud of her work mentoring both students and early-career educators, her dedication to quality improvement in laboratory education, and her continued role in developing the next generation of skilled and compassionate laboratory professionals.



TIMOTHY A. NEWKIRK

Clinical Coordinator &
Associate Professor

EDUCATION

MSMLS, Andrews University
MT(ASCP), CLS(NCA)
BS, BSMT, Andrews University

BIOGRAPHY

Timothy Newkirk has been a dedicated faculty member at Andrews University since 2010, serving in several leadership capacities, including two years as Graduate Program Coordinator and currently as Clinical Coordinator for the Department of Medical Laboratory Sciences. With over a decade of teaching experience, he is passionate about Medical Laboratory Science education, particularly in courses like Fundamentals of Hematology and any laboratory class involving microscopy.

In addition to teaching, Professor Newkirk has supported student success through academic advising, serving on professional recommendation committees, and sponsoring the MLS Club. Known for his approachable and supportive teaching style, he is deeply committed to fostering both academic excellence and personal growth in his students. He emphasizes the importance of combining rigor with grace—believing that students often surprise us when given the opportunity and encouragement to thrive.

Professor Newkirk brings a strong clinical background to the classroom, having worked as a generalist in several hospitals across Michigan and Arizona, including Pawating Hospital (now Corewell Health Lakeland Hospitals), Borgess Medical Center, Verde Valley Medical Center, and Northern Michigan Regional Hospital (now McLaren Northern Michigan Hospital). His clinical roles included leadership responsibilities such as lab safety officer and supervisory oversight of lab operations and support staff. He earned his B.S. in Biology (1990), B.S. in Medical Technology (1992), and M.S. in Medical Laboratory Science (2014), all from Andrews University. He holds professional certification as a Medical Laboratory Scientist through ASCP (MLS(ASCP)), previously certified as MT(ASCP) and CLS(NCA).

Newkirk's path to the lab began during a year working as a phlebotomist in Redlands, California. While considering medical school, he discovered a deep appreciation for the hospital laboratory environment and returned to Andrews to complete his second bachelor's degree in medical technology. Inspired by teachers who truly saw and supported him, he now strives to be that same kind of educator—one who not only teaches but also uplifts. As he often says, "They don't care how much you know unless they know you care."

One of his greatest career achievements is the impact he's made on students who needed someone to believe in them. He is also proud to be part of the enduring legacy of the Andrews MLS program, which continues to produce outstanding laboratory professionals.



MELISSA POUA

Clinical Associate Professor

EDUCATION

MS in Microbiology & Cell Science, University of Florida
MT(ASCP)
BSCLS, Andrews University

BIOGRAPHY

With over a decade of teaching experience at Andrews University, Melissa Poua serves as a Clinical Associate Professor in the Department of Medical Laboratory Science. She began her academic career at Andrews as an instructor and advanced through the ranks to her current role. Her teaching focuses on Clinical Microbiology, Medical Terminology, and Introduction to Medical Laboratory Science, and she is passionate about cultivating student interest in the clinical lab profession.

In addition to her teaching, Professor Poua serves as the Student Research Coordinator and has mentored students through the Honors Research Program. She also supports student engagement as the faculty sponsor of the MLS Club.

Prior to joining academia, Poua worked for 15 years at the Medical Foundation as a medical technologist and charge tech. Her clinical experience includes both generalist responsibilities and work in specialized areas such as oncology. She was a member of the Ebola response team and actively mentored students and new employees during her time there.

Poua earned her B.S. in Clinical Laboratory Science from Andrews University in 2001 and her M.S. in Microbiology and Cell Science in 2019. Her research interests include novel pharmaceuticals and exploring metacognition and learning strategies to support student development.

Initially drawn to MLS for its unique combination of chemistry and biology, she discovered a true passion for the clinical laboratory. Through teaching, she now shares that passion with her students and takes pride in preparing future laboratory professionals for meaningful careers in healthcare.



CRISTY MOSS

MSMLS Program Director &
Clinical Associate Professor

EDUCATION

MBBS, University of West Indies
BSMLS, Andrews University

BIOGRAPHY

Cristy Moss brings a dynamic blend of clinical, academic, and medical expertise to her role as Associate Clinical Professor and Graduate Program Director in the Department of Medical Laboratory Sciences at Andrews University. Since joining the faculty in 2021, she has quickly become a driving force in curriculum development, interdisciplinary education, and student mentorship.

Her clinical background includes roles as a medical laboratory scientist at several hospitals across the U.S., including Bronson Methodist Hospital, Spectrum Health (now Corewell Health), and Mary Washington Hospital, among others. Her specialties include Clinical Chemistry, Hematology, and Microbiology. She also served as a House Officer (physician) at Princess Margaret Hospital in the Bahamas. Her leadership extends to the professional field through her current role on the ASCLS–Michigan Nominations Committee (2024–2026).

Cristy holds a Bachelor of Science in Medical Laboratory Sciences (2013) and a Master of Business and Basic Medical Sciences (MBBS, 2019) from the University of the West Indies–Mona, the equivalent of a U.S. M.D. She is certified as a Medical Laboratory Scientist through the ASCP (cMLS(ASCP)CM).

Cristy’s path into MLS was sparked by a fascination with the history of medicine and the power of diagnostic data to tell the story of the human body. Her teaching philosophy emphasizes continuous improvement and resilience. She encourages students to “be wrong and strong”—to learn from mistakes without shame and to grow with confidence and curiosity.

Through every role she holds, Professor Moss remains committed to advancing patient care, scientific learning, and the next generation of medical laboratory professionals.



YSABEL RONDÓN

Department
Coordinator/Administrative
Assistant

EDUCATION

Bachelor's Degree in Office Administration, Antillian Adventist University

BIOGRAPHY

Ysabel Rondón brings over 30 years of administrative and healthcare experience to her role as Department Coordinator for Medical Laboratory Sciences at Andrews University. With a background in office administration and patient services, she ensures the smooth operation of departmental logistics, supporting both students and faculty with excellence and care.

Prior to joining Andrews, she served as an Admission and Financial Counselor at Lakeland Hospital, where she specialized in patient coordination, financial counseling, and administrative support. Ysabel holds a Bachelor's degree in Office Administration with honors from Antillean Adventist University and is a Certified Nursing Assistant. Known for her professionalism, warmth, and attention to detail, she plays a vital role in fostering a welcoming and efficient academic environment.



MARCIA KILSBY

Adjunct Professor &
Professor Emeritus

EDUCATION

BS, MS, PhD, Andrews University
MT(ASCP)SBB, CLS(NCA)

BIOGRAPHY

Marcia Kilsby, former Department Chair and Program Director of the Medical Laboratory Sciences program at Andrews University, served on the faculty from 1984 until her retirement. She is an Associate Professor with expertise in immunohematology and transfusion medicine.

Dr. Kilsby earned her BS in Biology (1981) and MS in Medical Technology (1987) from Andrews University, completed the Specialist in Blood Banking Program at Marquette University (1998), and received her PhD from Andrews in 2005. She is certified by the ASCP as both a medical technologist and specialist in blood banking.

Prior to her academic career, she worked as a medical technologist at Pawating Hospital. She has served as a national accreditation reviewer and international consultant in laboratory science education. Dr. Kilsby is a member of several professional organizations and previously served as President of the Berrien Springs Community Library Board.

She and her husband, Harvey, have one son and four grandchildren.



ALBERT MCMULLEN

Professor Emeritus

EDUCATION

Postgraduate studies in Circadian Physiology, University of Minnesota
M.A. in Physiology, Walla Walla College
B.A. in Biology, Columbia Union College

BIOGRAPHY

Albert W. McMullen served as a dedicated faculty member at Andrews University for over 30 years, where he played a key role in educating and mentoring students in the Department of Medical Laboratory Sciences. As Associate Professor, he taught a wide range of foundational courses including Hematology, Immunology, and Clinical Sciences, while also advising students and sponsoring the Clinical Laboratory Sciences Club.

Alongside his academic work, Professor McMullen maintained active clinical practice as a Clinical Laboratory Scientist at Corewell Health Lakeland St. Joseph Hospital (formerly Lakeland Regional Health Systems), specializing in blood bank, urinalysis, and coagulation testing. His leadership experience also includes serving as Program Director for the MLT program at Northwest Community College and managing laboratory systems at Hinsdale Hospital.

He holds an M.A. in Physiology from Walla Walla College, a B.A. in Biology from Columbia Union College, and completed postgraduate studies in Circadian Physiology at the University of Minnesota. He earned his MT(ASCP) certification from Hinsdale Hospital in 1974.

EDUCATION

BS, MS, Andrews University
MT(ASCP)SC, DLM

BIOGRAPHY

Richard Show served as an Associate Professor of Medical Laboratory Science on the campus of Andrews University, Berrien Springs, Michigan. He joined the faculty in 1988.

Show graduated from Andrews University, in 1967, with a Bachelor of Science in Medical Technology. In 1983, he received a Masters in Medical Technology from Andrews University.

Before coming to Andrews in 1988, Show served as medical technologist in various locations, including Hinsdale Hospital, Hinsdale, IL and the United States Army Hospital, Fort Campbell, KY. He was an assistant Administrative Director for the Department of Pathology at Hinsdale Hospital, as well.

Show is a member of the American Association for Clinical Chemistry, the American Society of Clinical Pathologists, and the Clinical Laboratory Management Association. He was awarded Andrews Academy's Alumnus of the Year in 2002.

He has one daughter and two sons.



RICHARD SHOW

Professor Emeritus



Hear What Our Students Are Saying

“The professors in this department are very open. You can just walk into their office and say, ‘Hey I need help with this’, or just talk with them about anything and they’re more than willing to help you out with whatever you need.”

Dawn Roselio, Class of 2017

“The teachers here and the students here are like family. And they support me throughout everything that I’ve been through.”

Prince Asante, Class of 2022

“As a guest student, I’ve completed my first three years of college at a different university and then I come and do the final clinical year here at Andrews University. And so coming here for my last year it really gave me an opportunity to make new friends, meet new professors, and really allowed me to get a well-rounded education.”

Nikolas Blagojev, Clinical Cohort of 2021-2022



Bachelor of Science in Medical Laboratory Sciences

BSMLS

PROGRAM OVERVIEW

Bachelor of Science in Medical Laboratory Sciences (BSMLS)

Welcome to Andrews University's Bachelor of Science in Medical Laboratory Sciences (BSMLS) program—an accredited, comprehensive degree designed to prepare students for successful careers in medical laboratories, healthcare diagnostics, and research.

Duration: The BSMLS program typically spans eight semesters over four academic years. Students gain in-depth theoretical knowledge and extensive hands-on clinical experience in diagnostic laboratory settings.

Curriculum Highlights

Key areas include:

- Clinical Chemistry
- Hematology
- Microbiology & Immunology
- Immunohematology (Blood Banking)
- Molecular Diagnostics
- Laboratory Operations & Management

This rigorous curriculum ensures graduates are well-prepared for certification and professional excellence.



Program Structure & Concentrations

BSMLS – First Degree (Traditional Track) - Designed for students pursuing their initial bachelor's degree, or for transfer students meeting prerequisite requirements. The first three years encompass pre-clinical studies, focusing on foundational sciences and general education. The final year is dedicated to the Clinical Year Program, emphasizing advanced medical laboratory science courses and practical experience.

Track Highlights

✓ **FOUNDATIONAL SCIENCE & PRE-CLINICAL COURSES**

Build a strong foundation in chemistry, anatomy, physiology, microbiology, and laboratory principles during your first three years.

✓ **ADVANCED CLINICAL YEAR CURRICULUM**

Dive into specialized coursework in clinical chemistry, hematology, microbiology, immunohematology, and molecular diagnostics.

✓ **HANDS-ON LAB TRAINING**

Apply what you learn through practical laboratory sessions using real clinical tools, guided by experienced faculty.

✓ **GUARANTEED CLINICAL PLACEMENT**

Gain valuable real-world experience through a 16-week clinical practicum at one of our affiliated hospital or laboratory sites.

[Click here for more information](#)

Career Pathways

- **Clinical laboratory diagnostics** in hospitals, clinics, and reference labs, performing essential testing to guide patient care
- **Public health laboratories**, supporting disease surveillance, outbreak investigation, and population health monitoring
- **Research institutions or pharmaceutical labs**, contributing to studies in immunology, microbiology, and emerging medical technologies
- **Pre-professional pathways**, including medical, dental, physician assistant (PA), or pharmacy school, supported by rigorous training in diagnostic sciences and lab-based problem solving

Program Structure & Concentrations

BSMLS – Second Degree (Accelerated Track) - This accelerated track is tailored for individuals who already possess a bachelor's degree in a related science field and wish to transition into medical laboratory science. The program focuses on the Clinical Year curriculum, which can be completed in approximately 14 months.

Track Highlights:



FOCUSED CLINICAL YEAR CURRICULUM

Build advanced competencies in diagnostic testing through specialized coursework in chemistry, hematology, immunohematology, microbiology, and molecular diagnostics.



ACCELERATED TIMELINE

Complete the program in approximately 14 months, making it ideal for career changers or professionals seeking rapid entry into the healthcare field.



HANDS-ON LAB TRAINING

Gain essential practical skills through immersive lab sessions that mirror real-world clinical environments.



GUARANTEED CLINICAL PLACEMENT

Apply your learning during a 16-week clinical practicum at an affiliated hospital or laboratory.

[Click here for more information](#)

Career Pathways

- **Clinical laboratory diagnostics** in hospitals, clinics, and reference labs, performing essential testing to guide patient care
- **Public health laboratories**, supporting disease surveillance, outbreak investigation, and population health monitoring
- **Research institutions or pharmaceutical labs**, contributing to studies in immunology, microbiology, and emerging medical technologies
- **Pre-professional pathways**, including medical, dental, physician assistant (PA), or pharmacy school, supported by rigorous training in diagnostic sciences and lab-based problem solving

Program Structure & Concentrations

MLT to BSMLS (Online Degree Completion Program) - Designed for certified Medical Laboratory Technicians (MLTs) holding an associate degree, this online program enables professionals to earn a BSMLS while maintaining employment. The curriculum builds upon existing knowledge, emphasizing advanced diagnostic techniques and laboratory management.

Track Highlights:



ADVANCED DIAGNOSTIC TECHNIQUES

Enhance your expertise in clinical chemistry, hematology, microbiology, molecular diagnostics, and more through upper-division coursework.



LABORATORY OPERATIONS & MANAGEMENT

Build leadership skills and knowledge in lab management, quality assurance, and regulatory compliance.



FLEXIBLE, SELF-PACED LEARNING

Take courses online while maintaining employment, allowing you to balance professional and academic responsibilities.



PERSONALIZED DEGREE PATH

Complete your degree based on previous coursework, with a focus on advancing your career and meeting certification goals.

[Click here for more information](#)

Career Pathways

- **Advanced clinical laboratory roles**, including senior technologist or lead technician positions
- **Laboratory management**, with responsibilities in supervision, quality control, and training
- **Public health and government laboratories**, expanding your scope of practice in population-level diagnostics
- **Eligibility to sit for the ASCP Board of Certification (MLS)**, opening doors to new career opportunities and higher earning potential

Program Structure & Concentrations

MLS Certificate – Clinical Year Program - This certificate program is intended for individuals with a bachelor's degree in a science-related discipline seeking to enter the medical laboratory profession. The curriculum mirrors the Clinical Year of the traditional BSMLS track, focusing on intensive laboratory instruction and clinical experience.

Track Highlights:

✓ **CORE LABORATORY SCIENCE DISCIPLINES**

Master essential skills in clinical chemistry, hematology, microbiology, immunohematology, and molecular diagnostics.

✓ **ACCELERATED CLINICAL TRAINING**

Complete the program in approximately 12–14 months, focusing solely on the clinical year curriculum of the BSMLS program.

✓ **INTENSIVE, HANDS-ON INSTRUCTION**

Participate in advanced laboratory sessions and simulations that prepare you for real-world diagnostic work.

✓ **GUARANTEED CLINICAL PLACEMENT**

Gain practical experience through a 16-week clinical practicum at one of our partner healthcare facilities.

[Click here for more information](#)

Career Pathways

- **Clinical laboratory roles in hospital, diagnostic, or reference laboratories**, performing critical patient testing
- **Public health laboratories**, supporting disease detection, outbreak monitoring, and population health
- **Research and development** in pharmaceutical or biotech settings, utilizing advanced diagnostic skills
- **Eligibility to sit for the ASCP Board of Certification (MLS)**, qualifying you for nationally recognized credentials and advancement in the field

Program Structure & Concentrations

Online Technologist Certificates - These specialized online certificates are designed for practicing professionals aiming to deepen their expertise in specific areas of medical laboratory science. Each certificate focuses on a distinct discipline: Clinical Chemistry, Hematology, Microbiology

Track Highlights:

✓ **FOCUSED EXPERTISE BY DISCIPLINE**

Choose from targeted certificate tracks in Clinical Chemistry, Hematology, or Microbiology to expand your professional capabilities.

✓ **ADVANCED TECHNICAL KNOWLEDGE**

Build on foundational training with courses in analytical techniques, microbial pathogenesis, and hematologic diagnostics.

✓ **FLEXIBLE ONLINE FORMAT**

Study on your schedule with fully online coursework designed for working professionals.

✓ **QUALITY AND COMPLIANCE TRAINING**

Develop practical skills in laboratory quality control, safety, and regulatory standards.

[Click here for more information](#)

Career Pathways

- **Specialized roles within hospital or reference labs**, focusing on your chosen discipline
- **Career advancement into lead or supervisory positions** within chemistry, hematology, or microbiology departments
- **Continuing education fulfillment** for maintaining certification or licensure
- **Strengthened qualifications** for transitioning into teaching, training, or lab consulting roles

Program Structure & Concentrations

Affiliate Guest Student Program - In collaboration with partner universities, this program allows students to complete their clinical training at Andrews University. Participants undertake pre-clinical coursework at their home institutions and join Andrews University for the Clinical Year Program.

Track Highlights:



ADVANCED CLINICAL YEAR CURRICULUM

Study essential diagnostic disciplines including clinical chemistry, hematology, microbiology, immunohematology, and molecular diagnostics.



COLLABORATIVE ACADEMIC PATHWAY

Begin your academic journey at your home institution, then complete the Clinical Year at Andrews University through an established partnership.



HANDS-ON LABORATORY EXPERIENCE

Participate in intensive lab instruction and simulated diagnostic scenarios to prepare for professional work.



GUARANTEED CLINICAL PLACEMENT

Receive practical training through a 16-week clinical practicum at one of Andrews University's affiliated healthcare sites.

[Click here for more information](#)

Career Pathways

- **Medical laboratory scientist roles** in hospital, outpatient, and public health lab settings
- **Specialized diagnostic testing** in microbiology, hematology, or transfusion medicine
- **Research and quality assurance positions** in clinical or industrial laboratory environments
- **Eligibility to sit for the ASCP Board of Certification (MLS)**, opening doors to national credentialing and career advancement



More for Less
Accelerated **BS +**
MSMLS Track



Program Structure & Concentrations

Accelerated BS + MSMLS Track -Earn Your Master's in Medical Laboratory Science in Just 5 Years! Take the accelerated path with our in-person MSMLS program, designed for driven students who want to complete both a bachelor's and master's degree in in just five years. Upon completion of the masters program, graduates are eligible to sit for Medical Laboratory Scientist (MLS) certification such as that offered by the American Society of Clinical Pathologists (ASCP).

Track Highlights:

✓ **INTEGRATED UNDERGRADUATE AND GRADUATE CURRICULUM**

Earn a Bachelor of Science in Biomedical Diagnostics by the end of year four and a Master of Science in Medical Laboratory Science (MSMLS) by the end of year five.

✓ **ADVANCED CLINICAL AND DIAGNOSTIC TRAINING**

Build deep expertise in clinical chemistry, microbiology, hematology, molecular diagnostics, lab management, and applied research.

✓ **BOARD CERTIFICATION PREPARATION**

Graduate fully eligible to sit for the ASCP Board of Certification (MLS), a nationally recognized credential in laboratory science.

✓ **INCREASED VALUE, REDUCED TIME AND COST**

Complete two degrees in five years for less tuition than pursuing them separately—more education, less expense.

[Click here for more information](#)

Career Pathways

- **Advanced roles in hospital or reference labs**, with greater opportunity for promotion and specialization
- **Research, leadership, or supervisory positions** in clinical and academic laboratory settings
- **Competitive advantage for applying to PhD or professional programs** in healthcare or biomedical sciences
- **Stronger salary potential and expanded career flexibility** with both BS and MS credentials

Bachelor of Science in Medical Laboratory Sciences (BSMLS)

ADMISSIONS REQUIREMENTS

Applicants may be admitted through any of the following pathways:

- High School Curriculum Completion: Must meet college-preparatory standards
- Standardized Test Scores: ACT or SAT scores are accepted (optional for some applicants)
- GED: Applicants with a General Education Diploma are also eligible for consideration
- English Proficiency: Required for non-native English speakers (TOEFL, IELTS, or Duolingo accepted)
- Transfer students must have a minimum college cumulative GPA of 2.50. Transfer students who have earned 25 or more semester credits before applying to Andrews are evaluated on the basis of their cumulative college GPA (official transcript required).
- Applicants who have completed an AA/AS degree at a regionally accredited institution or completed a state core curriculum (e.g. MTA) will be considered to have met all general education (Andrews Core Curriculum) requirements with the exception of Religion.



No matter which BSMLS track you pursue, Andrews University offers a flexible and supportive admissions process with multiple entry points based on your academic background.

We encourage prospective students to explore their options and connect with our admissions team to find the right path forward.

- Learn more: [Freshman Admissions Requirements](#)



Big Dreams, Real Support: Up to **Full Tuition** for Every Admitted Student

College is a big investment—Andrews University is here to help. **Every admitted student receives the Andrews Partnership Scholarship, ranging from \$8,000 up to full tuition per year for the duration of the program.**

Program Costs & Financial Aid

PROGRAM COSTS

Important Reminder: Every admitted student receives the Andrews Partnership Scholarship (APS), ranging from \$8,000 up to full tuition per year for the duration of the program.

Undergraduate	Semester	Year
Tuition package (12-16 credits)	\$17,520.00*	\$35,040.00*
Tuition (under 12 credits)	\$1,460.00/credit	
Tuition (over 16 credits)	\$1,201.00/credit	
Residence Hall (double occupancy, Lamson, Meier)	\$2,966.00*	\$5,932.00*
Residence hall (double occupancy, Burman)	\$1,440.00	\$2,880.00
Residence Hall (double occupancy, Damazo)	\$2,852.00	\$5,704.00
Gold Meal Plan	\$2,611.00*	\$5,222.00*
Platinum Meal Plan	\$3,127.00	\$6,254.00
Books and Supplies (estimate, optional)	\$550.00	\$1,100.00
General Fees	\$707.00*	\$1,414.00*
Total	\$23,804.00	\$47,608.00

Totals include *asterisked items

Senior/Clinical Year Fees (3 Semesters)	Semester	Total
General Fees (on-campus program)	\$707.00	\$2,121.00
Professional BSMLS Fees (on-campus program)	\$842 (Fall), \$810 (Spring), \$458 (Summer)	\$2,110.00
Total		\$4,231.00

To assist you in planning your educational journey, we've provided an overview of the program costs and financial aid options available at Andrews University.

For detailed information on residential housing options and associated costs, please [refer to the Residence Life section of this guide](#).

Program Costs & Financial Aid

FINANCIAL AID

At Andrews University, we're committed to making your Medical Laboratory Sciences education both affordable and accessible.

Every admitted student receives the Andrews Partnership Scholarship (APS), ranging from \$8,000 up to full tuition per year for the duration of the program.

In addition to APS, students may qualify for a variety of financial aid options, including federal and state grants, work-study programs, and student loans.

Our financial aid team is here to help you explore all available resources so you can focus on preparing for your future without unnecessary financial burden.

[For more details, visit the Andrews University Student Financial Services page](#)





Student Life & Campus Experience

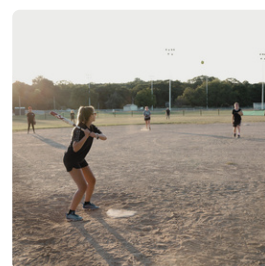


Student Life And Campus Experience

Life at Andrews University offers students a vibrant and diverse community where lifelong friendships are forged through shared experiences, both inside and outside the classroom.

Nestled in Southwest Michigan, just an hour and a half from Chicago and minutes from the stunning beaches of Lake Michigan, students can enjoy an amazing blend of city excitement and natural beauty.

Whether it's soaking up the sun on the beach, hitting the slopes for some winter fun, or exploring the cultural richness of nearby cities, there's always something exciting to do. Beyond academics, life at Andrews is filled with opportunities for adventure, personal growth, and lasting memories.



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Andrews University 1874 • 2024



“When I go to my class, there are students from all around the world with different perspectives. I don’t even have to travel outside of the country to experience different cultures, and foods from all over the world.”

Jhoana Mortera

Enjoy A World of Diversity & The Best That Southwest Michigan Has To Offer!



WORLD CHANGERS MADE HERE



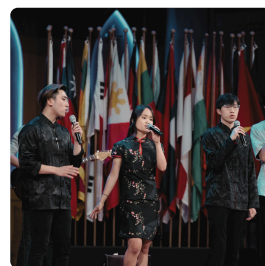
Residence Life

Andrews University maintains a residential campus, requiring all single undergraduate students under age 22 to live in university residence halls, unless they are living with an approved family member or Andrews faculty or staff member.

Each residence hall is staffed with full-time professional staff, student deans, resident advisors, and support staff, aiming to create a community-based atmosphere where students can live and learn together. This environment fosters holistic development and encourages the formation of lifelong friendships among residents.

The university maintains three residence halls and one apartment complex:

- Lamson Hall
- Meier Hall
- University Towers
- University Apartments





Residence Life

Life at Andrews University offers students a vibrant and diverse community where lifelong friendships are forged through shared experiences, both inside and outside the



Lamson Hall

Lamson Hall is the residence hall for single female undergraduates under age 22 at Andrews University.

[Click here for more information.](#)



Meier Hall

Meier Hall is the residence hall for single male undergraduate students under age 22 at Andrews University.

[Click here for more information.](#)



Residence Life

Life at Andrews University offers students a vibrant and diverse community where lifelong friendships are forged through shared experiences, both inside and outside the



University Towers

Two separated residence halls, Burman Hall and Damazo Hall, for undergraduates age 22+ and graduates.

[Click here for more information.](#)



University Apartments

University Apartments are available to married students, students with children, and single undergraduate (age 22+) or graduate students.

[Click here for more information.](#)



Faith & Spiritual Life

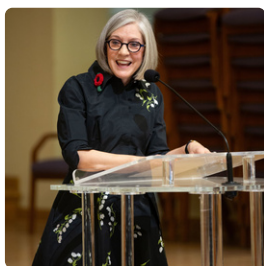




Faith And Spiritual Life

At Andrews University, students are offered a unique opportunity to grow spiritually in an environment that fosters a close relationship with God. As a Seventh-day Adventist institution, we prioritize not just academic excellence but also the development of strong moral principles and a deep spiritual foundation.

Our holistic approach to education nurtures the body, mind, and spirit, ensuring that students are well-equipped to make a meaningful impact in the world. Through worship services, spiritual retreats, and faith-based community activities, students are encouraged to explore and deepen their personal faith journey, creating a balanced and purpose-driven life.





GROW FAITHFULLY

Nurture your spiritual journey |

Andrews provides engaging faith-based activities, community worship, and service opportunities, that help guide you toward a deeper relationship with God.



TRANSFORM SPIRITUALLY

Immerse in an atmosphere of spiritual growth |

Andrews integrates spiritual development into every aspect of student life, ensuring you grow not just academically, but in your faith as well.





Take The Next Step


As you consider your future in healthcare, the Bachelor of Science in Medical Laboratory Sciences (BSMLS) program at Andrews University provides outstanding education, guaranteed clinical placements, and opportunities for personal growth in a supportive, faith-based environment.

We're dedicated to helping you achieve your goals. For more details on how the BSMLS program can prepare you for career success, contact us today—we're here to answer your questions and guide your next steps toward an exciting, impactful future in medical laboratory sciences.

Department of Medical Laboratory Sciences at Andrews University



Scan the QR Code
To Apply Today!

 +1-269-471-3331

 mls@andrews.edu



KEEP *Pushing*
BOUNDARIES AND
Never **STOP**
GROWING.

**World
Changers
Made
Here.**