



THE GRADUATE SCHOOL

Andrews  University

MASTER OF SCIENCE IN CLINICAL LABORATORY SCIENCES

Welcome to the Graduate School at Andrews University. The faculty, staff and students of the Department of Clinical and Laboratory Sciences are pleased that you are interested in the MSCLS program. As the professional market continues to demand higher knowledge and advanced degrees, graduate study is a wise and important step towards your career goal. As the only Seventh-day Adventist university offering an MSCLS degree, our goal is to connect our students with comprehensive instruction—including attention to professional growth, personal student-professor interaction, excellent advising and an emphasis on the spiritual dimensions of the health care field. With our integrated approach to learning, our program provides the knowledge, practice, and competitive edge you need to assume a leadership role in the profession.



OUR PROGRAM OFFERS

A VARIETY OF PROGRAM EMPHASES

In response to the diversity of career skills in the CLS field, we offer three areas of emphasis: biomedical sciences, business and management, and education.

CULTURAL DIVERSITY

Our campus offers unique cultural perspectives from students and teachers alike. With over one quarter of our students from overseas, you connect with a campus that ranks among the nation's top ten universities for ethnic diversity and international student population (U.S. News & World Report, 2002).

A SPECIALIZED, EXPERIENCED FACULTY

Along with several CLS specialty certifications, our faculty represents over 60 years of clinical experience in combination with extensive teaching experience.

WHY A MASTER OF SCIENCE IN CLINICAL LABORATORY SCIENCE

Our MSCLS degree is a professional degree designed to meet the needs of the Clinical Laboratory Scientist (CLS) in an increasingly complex healthcare environment. With the amount of, and demand for, laboratory testing increasing each year, a significant need exists for CLS professionals, but particularly for individuals with advanced technical knowledge, management skills, and leadership abilities. With a masters level degree, you will be equipped to become a leader in health care, helping to guide CLS professionals into the future.

WHY AN MSCLS FROM ANDREWS UNIVERSITY

Andrews University has a long-standing reputation for solid academics, favorable student-to-professor ratio, supportive learning atmosphere, and tradition of multiculturalism. Our students receive the highest quality instruction, individual attention, and preparation for today's global work environment. As service to others is an integral part of our Christian philosophy, our goals are to help you acquire and develop the skills you need for excellence in healthcare, and to encourage a dedication to improving the human condition.

WHAT CAREER OPPORTUNITIES ARE AVAILABLE

Depending on the area of specialization, graduates of the MSCLS program are qualified for several leadership positions in the CLS field. Graduates of the program have become laboratory managers or supervisors, educators, laboratory information systems directors, healthcare administrators, or researchers.

SCHOLARSHIPS, GRANTS, ASSISTANTSHIPS

Connect with Student Financial Services for information about the availability of graduate student funds.

ADVISORS

Richard D. Show is the program coordinator and advisor to all MSCLS students.

CORE FACULTY

- Marcia A. Kilsby, Chair, Associate Professor of Clinical Laboratory Sciences. Immunohematology and Transfusion Medicine. BS, MS, PhD, Andrews University; CLS(NCA); MT(ASCP)SBB.
- Albert W. McMullen, Associate Professor of Clinical Laboratory Sciences. Hematology and Hemostasis. BA, Columbia Union College; MA, Walla Walla College; MT(ASCP).
- Richard D. Show, Associate Professor of Clinical Laboratory Sciences. Clinical Chemistry, Body Fluids, Laboratory Management. BS, MS, Andrews University; DLM; MT(ASCP)SC.
- Karen Reiner, Associate Professor of Clinical Laboratory Sciences. Microbiology and Clinical Immunology. BS, Columbia Union College; MSCLS, Andrews University; MT(ASCP).

GUARANTEED CLINICAL EXPERIENCE

Our professional degree program features at least 5 semester credits of advanced, hands-on CLS studies at one of our nationwide affiliate clinical or research facilities. Areas of study include clinical microbiology, clinical chemistry, hematology, immunohematology, laboratory administration, or clinical laboratory science education.

ADMISSION REQUIREMENTS

Each applicant must complete a Graduate Application and submit all required materials to be admitted to the Graduate School. Additionally, the Department of Allied Health requires MSCLS applicants to meet the following criteria and provide documentation as proof of eligibility along with the Graduate Application.

- 16 semester credits (or 24 quarter credits) of biological science
- 16 semester credits (or 24 quarter credits) of chemistry
- One college-level mathematics course, statistics preferred
- Documentation of professional certification or licensure as a Clinical Laboratory Scientist or Medical Technologist*. Certification may be either general or in a recognized area of specialization. Acceptable certification is defined as that offered by the American Society for Clinical Pathology (ASCP) or the National Certification Agency for Medical Laboratory Personnel (NCA) sponsored by the American Society for Clinical Laboratory Science (ASCLS).

*Candidates without certification as defined above may be admitted on a provisional basis. Certification, however, must be obtained within the first 12 credit hours of the program, and also before the student may enroll in CLSC561, CLSC562, or CLSC585. It is possible to obtain certification eligibility through Andrews University. Contact the Department of Allied Health for more information about our CLS certification options.

PROGRAM REQUIREMENTS

The MSCLS program consists of 32 semester credits: 20 credits of core courses and 12 credits from the emphasis. At least 16 of these credits must be in courses at the 500 level or greater. Since course offerings and schedules change from year to year, students may require more than one year to finish the MSCLS program. The graduate program coordinator must approve all course selections and sequencing. MSCLS students must maintain a GPA of 3.00 or higher, with no course grade lower than a "C".

CORE (along with one emphasis area)		Credits
ACCT500	Survey of Accounting -or-	3
ACCT635	Accounting & Finance for Manager	3
BSAD500	Survey of Management	3
CLSC501	Seminar in Clinical Laboratory Science	1
CLSC502	Seminar in Clinical Laboratory Science	1
CLSC561	Laboratory Mgmt. Issues & Strategies	3
CLSC562	Issues in C.L. Regulations & Practice	3
CLSC585	Advanced Studies in C.L.S.	5
REL	Graduate Level Religion Course	3

Choose from ONE of the following emphasis areas:

Biomedical Sciences Emphasis		Credits
(a minimum of 12 credits from the following)		
BCHM421	Biochemistry I	4
BCHM422	Biochemistry II	3
BCHM430	Biochemistry Lab	1
BIOL419	Immunology Lab	1
BIOL444	Electron Microscopy	1
BIOL445	Molecular Genetics	3
BIOL446	Electron Microscopy Lab	2
BIOL447	Tissue Culture	3
PTH417	Human Anatomy	3
PTH427	Human Anatomy Lab	3
PTH447	Neuroanatomy	2
PTH457	Neuroanatomy Lab	1
BOT525	Molecular Lab Techniques	3
ZOOL464	Systems Physiology	4
ZOOL475	Neurobiology	5
ZOOL500	Protozoology	4

Business & Management Emphasis		Credits
(a minimum of 12 credits from the following)		
ACCT635	Accounting & Finance for Managers	3
(if not taken as part of the core)		
BSAD515	Organizational Behavior	3
BSAD530	Mgmt. for Not-for-Profit Orgs.	3
BSAD531	Healthcare Delivery in the U.S.	3
BSAD532	Healthcare Policy & Management	3
BSAD535	Health Service Management	3
BSAD638	Hospital Administration	3
BSAD670	Human Resources Seminar	3
MKTG500	Survey of Marketing	3
MKTG540	Mktg. for Not-for-Profit Orgs.	3
NRS517	Healthcare Systems	3

Education Emphasis		Credits
(a minimum of 12 credits from the following)		
EDAL520	Foundations of Leadership	2-3
EDCI547	Foundations of Curriculum Develop.	3
EDCI565	Improving Instruction	3
EDCI636	Program Evaluation	3
EDCI655	Curriculum Development Research	3
EDFN500	Foundations of Christian Education	3
EDPC514	Psychology of Learning	2-3
EDTE408	Principles of Teaching & Learning	2-3
EDTE424	Classroom Testing & Evaluation	2



connect



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CLINICAL &
LABORATORY SCIENCES

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