College of Arts and Sciences
Cytotechnology is a specialty within a broad field of clinical laboratory science. Cytotechnologists aid in the early detection of disease by differentiating normal, atypical, and malignant cells. In recognizing microscopic abnormalities of cells and cellular patterns from the various body sites, the cytotechnologist assists the pathologist in detecting cancer at its earliest and potentially most curable stage. Medical applications of cytologic techniques are constantly expanding, particularly in the diagnosis and management of the cancer patient.

Students pursuing a career in cytotechnology should complete the first two or three years (according to their selection of school for technical education) and then complete the professional courses offered at Loma Linda University or another school. For more information: http://www.ascp.org.

**DENTAL ASSISTANT AND DENTAL HYGIENE**

James Hayward, Coordinator  
(616) 471-3241

Price Hall (Science Complex)

Students interested in a dental assistant career should obtain information concerning the program from the school to which they wish to apply. Students planning a career in dental hygiene should complete two years of college work before entering a professional school.

Upon completion of an additional two years of prescribed college work at a professional school, the student will earn a Bachelors degree in dental hygiene.

The following courses are recommended for the first two years before entering Loma Linda University. Students interested in applying to other professional schools should obtain specific entrance requirements for those schools.

**Pre-dental Hygiene Curriculum**

Cultural and Spiritual Heritage—14
Cultural—8
History/civilization, literature, fine arts, theory, foreign language, philosophy, ethics.
Religion —6
Required only of students applying from Adventist or other religious colleges/ universities.
Scientific Inquiry and Analysis—23
Physical/Natural Sciences—15
*Chemistry—one academic year covering inorganic, organic, and biochemistry; *human anatomy and human physiology—two separate or sequential courses; *microbiology*
Social Science—8
*Introduction to sociology with remaining credits in anthropology, economics, geography, political science, psychology
Communication—9
*Freshman English, one complete sequence for BS degree; *speech/interpersonal communication/ persuasion
Health and Wellness—3
Health (personal health or nutrition)
Physical education (2 activity courses)
*required courses

**DENTISTRY**

James Hayward, Coordinator  
(616) 471-3241

Price Hall (Science Complex)

Preference is given to applicants who have a broad academic background with a baccalaureate degree. The minimum entrance requirement is 96 quarter credits with a 2.70 GPA (C=2.00) in both science and non-science courses, although it is recommended that students should maintain an A/B average in science as well as overall. The Dental Aptitude Test (DAT) must be taken not later than October of the year preceding admission. Minimum entrance requirements for most dental schools follow. For more information, contact the American Association of Dental Schools (http://www.aads.jhu.edu) and the American Dental Association (http://www.ada.org).

**HEALTH INFORMATION MANAGEMENT**

Medical Records Administration
Marcia A. Kilsby, Coordinator  
(616) 471-6294

Halenz Hall (Science Complex)

Health information management includes the development of information systems to provide optimal user access to medical records and other vital patient data. The health information specialist also manages or consults in maintenance of quality and legal standards for data used in administrative planning, research, patient care evaluation, and financial reimbursement. For more information: http://www.aihima.org.

**LAW**

Jane Sabes, Coordinator  
(616) 471-3293, sabesja@andrews.edu

Nethery Hall, 122-C

Law schools prescribe no special college program. Therefore, pre-law students may select from a variety of majors and minors without adversely affecting admission to law school. The prospective lawyer’s education should be as broad as possible, including the development of writing and reading skills, logical thinking, and understanding of legal, political, social and economic issues and institutions. Because competition for admission to a reputable law school is intense, it is important to maintain a high level of academic achievement.

Pre-law students might consider an interdisciplinary degree with political science as the core in combination with fields such as communication, economics, or international languages. Such a program will also prepare the student to pursue an alternative career if plans should change.

Students pursuing pre-law school should consult the pre-law advisor at least once a year, preferably at fall registration. A pre-law club provides additional resources for the student.

The booklet Law Schools and Bard Admission Requirements provides detailed information concerning a desirable academic background for the study of law. Copies are available upon request from the section of Legal Education and Admissions to the Bar, American Bar Association, 1115 East 60th Street, Chicago, IL 60600.

**PRE-PROFESSIONAL PROGRAMS**

Although essentially a liberal arts college, the College of Arts and Sciences offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University.

**CHIROPRACTIC**

Robert A. Wilkins, Coordinator  
(616) 471-6288

Halenz Hall (Science Complex)

Entrance requirements for colleges of chiropractic vary. Students are advised to consult the admissions adviser at the chiropractic school to familiarize themselves with the requirements of the school of their choice. The admission requirements of chiropractic schools range from 60 credits to a baccalaureate degree and a minimum GPA of 2.50. For a list of the various schools contact the chiropractic coordinator. For information about the profession and publications check out the website at http://www.amerchiro.org.

The courses listed below and 90 credits satisfy the requirements for Palmer College of Chiropractic.

**Pre-chiropractic Curriculum**

Biology (111, 112; 113 recommended)—7; 8
General Chemistry—8
Organic Chemistry—8
General Physics—8
Communication Skills—3
English Composition—6
Introduction to Psychology—3
Social Sciences/Humanities—15

**CYTOTECHNOLOGY**

Marcia Kilsby, Coordinator  
(616) 471-6294

Halenz Hall (Science Complex)

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Jane Sabes, Coordinator  
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MEDICINE
Bill Chobotor: (616) 471-3262
Marcia A. Kilsby: (616) 471-6294
Robert A. Wilkins: (616) 471-6288
Science Complex

Although allopathic (MD) and osteopathic (DO) medicine represent different philosophies of patient care, a physician in either branch of medicine is required to pass the same national board examination to practice.

Students seeking admission to medical schools are encouraged to plan a baccalaureate degree that includes courses which meet the stated entrance requirements of the medical school of their choice as listed in Medical School Admissions Requirements or the websites of the Association of American Medical Colleges (http://www.aamc.org) and the American Association of Colleges of Osteopathic Medicine (http://www.aacom.org). The pre-medical student may choose any major or minor and is encouraged to become acquainted with the main bodies of knowledge as represented by the various academic disciplines.

Required Courses for Applicants to Loma Linda University School of Medicine
English Composition/Writing Seminar—6
Foundations of Biology—10
General Chemistry—8
General Physics—8
Organic Chemistry—8
Religion—9

Students should maintain an A/B average in science as well as overall.

PRE-OCCUPATIONAL THERAPY
Bill Chobotor, Coordinator
Price Hall (Science Complex)

The occupational therapist helps people cope with psychological or physiological dysfunction.

Pre-occupational Therapy Curriculum
LLU Requirements and AU Equivalents

Religion
LLU: 4 credits/yr. (only for students from Adventist colleges/universities)
AU: A general education religion course (4-8 credits: 4 credits each year)

Cultural Heritage
LLU: 12 credits from Cultural Diversity and areas of art/music (2-credit limit in performing arts), literature, philosophy, history of civilization—American, and any foreign language
AU: ANTH 124 or 200; select remainder from ARTH20; MUHL214; ENGL225, 275, 276; PHIL224; HIST117, 118, 204, 205; any foreign language

Physical/Natural Sciences
LLU: anatomy and physiology sequence, 1 quarter chemistry, 1 quarter physics/lab; math—2 years HS with at least a grade of C
AU: BIOL11-113; CHEM110; PHYS105; MATH106 (no credit)

Social Sciences
LLU: anthropology, sociology, general psychology; Growth and Development; and select one other behavioral science
AU: ANTH124, 200; SOC119; PSYC101; EDPC301; and select from other ANTH, PSYC, or SOCI courses

Communication
LLU: Freshman English—complete sequence;

PHARMACY
Robert A. Wilkins, Coordinator
(616) 471-6288
Price Hall (Science Complex)

Entrance requirements to colleges of pharmacy vary; therefore, it is imperative that students familiarize themselves with the requirements of the school of their choice. Ferris State University [FSU], Wayne State University, and University of Michigan operate accredited colleges of pharmacy in the state of Michigan.) Information about the various schools of pharmacy can be found on the American Association of Colleges of Pharmacy website: http://www.aacp.org. The pharmacy curriculum requires 2 years of pre-pharmacy and 4 years of professional pharmacy education. The following prepharmacy courses are those required by FSU. FSU offers a calculus course in the state of Michigan. Information about the various schools of pharmacy can be found on the American Association of Colleges of Pharmacy website: http://www.aacp.org. The pharmacy curriculum requires 2 years of pre-pharmacy and 4 years of professional pharmacy education. The following prepharmacy courses are those required by FSU. FSU offers a calculus course in the state of Michigan. Information about the various schools of pharmacy can be found on the American Association of Colleges of Pharmacy website: http://www.aacp.org. The pharmacy curriculum requires 2 years of pre-pharmacy and 4 years of professional pharmacy education. The following prepharmacy courses are those required by FSU. FSU offers a calculus course in the state of Michigan. Information about the various schools of pharmacy can be found on the American Association of Colleges of Pharmacy website: http://www.aacp.org. The pharmacy curriculum requires 2 years of pre-pharmacy and 4 years of professional pharmacy education. The following prepharmacy courses are those required by FSU. FSU offers a calculus course in the state of Michigan. Information about the various schools of pharmacy can be found on the American Association of Colleges of Pharmacy website: http://www.aacp.org. The pharmacy curriculum requires 2 years of pre-pharmacy and 4 years of professional pharmacy education. The following prepharmacy courses are those required by FSU. FSU offers a calculus course in the state of Michigan. Information about the various schools of pharmacy can be found on the American Association of Colleges of Pharmacy website: http://www.aacp.org. The pharmacy curriculum requires 2 years of pre-pharmacy and 4 years of professional pharmacy education. The following prepharmacy courses are those required by FSU. FSU offers a calculus course in the state of Michigan. Information about the various schools of pharmacy can be found on the American Association of Colleges of Pharmacy website: http://www.aacp.org. The pharmacy curriculum requires 2 years of pre-pharmacy and 4 years of professional pharmacy education.
RESPIRATORY CARE
C. William Habenicht, Coordinator
(616) 471-6551
Physical Therapy Building

Andrews University offers prerequisite course work to prepare students who wish to enter a 2-year Associate of Science degree program or a 4-year Bachelor of Science degree program in Respiratory Care. Admission requirements vary among professional respiratory care programs. Not all professional programs accept transfer credits. Therefore, as soon as possible, interested students should contact the programs of choice for the most current prerequisite requirements. A list of accredited respiratory care programs may be obtained from the American Association for Respiratory Care, 11030 Ables Lane, Dallas, TX 75229 (phone 972-243-2272 and ask for the Education Department) or explore the web at http://www.aarc.org/patient_resources/schools.html

Loma Linda University: Interested students may complete the prerequisites for Loma Linda University’s Respiratory Care Education Program while attending Andrews University. Check with the above listed coordinator for the required course work. The Pre-LLU/RC student may then apply and transfer to LLU through its selective admissions process as a second-year student in their program.

ALLIED HEALTH

Halenz Hall, Room 326
(616) 471-3336
cls@andrews.edu
http://www.andrews.edu/ALHE

Faculty
Marcia A. Kilsby, Chair, CLS Program Director
Albert W. McMullen
Richard D. Show, Graduate Program Coordinator
Clifford Sutherland

<table>
<thead>
<tr>
<th>Academic Programs</th>
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<td>BS in Clinical Laboratory Science</td>
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<tr>
<td>BS in Allied Health Administration</td>
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<tr>
<td>MSCLS (Clinical Laboratory Science)</td>
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The Department of Allied Health prepares students who are committed to preserving and protecting the dignity of life and death. They promote values and attitudes consistent with the Seventh-day Adventist Christian lifestyle. They strive to instill in students a life-long personal quest for individual growth and fulfillment and for continual excellence in health-care practice.

Clinical Laboratory Science
(Medical Technology)

The degree program includes 3 years of undergraduate (pre-clinical) studies plus one year (3 semesters) of clinical (professional) education.

Pre-clinical Program. The first 3 years of undergraduate study include General Education, cognate science, and pre-clinical degree requirements. Program options feature directed elective course work selected in consultation with the faculty adviser according to the student’s career goals and interests.

Clinical (Professional) Program. The year of clinical studies is comprised of lectures and student laboratories on the Berrien Springs campus and a clinical practicum at an affiliated hospital or clinical laboratory site.

Clinical Experience (Practicums). Students work side-by-side with practicing professionals in patient health care during the final portion of the clinical year. Andrews University maintains a number of affiliations with clinical institutions across the country. Student preferences for clinical site assignments are solicited and granted when possible. Final site assignments are made at the discretion of the faculty.

Clinical Year Admission Requirements. An independent admissions process is required for university students who wish to enter clinical studies. Application forms may be obtained from the Department of Allied Health office. Students should complete these applications and return them to the departmental office by February 15th prior to their anticipated clinical-study year.

Admission requires an overall GPA of 2.50. In the admissions process, the GPAs for the cognate science courses and clinical laboratory science content courses are computed together. This combined GPA must be a minimum of 2.50. Should applications exceed class capacity, preference is given to students with the higher GPAs.

Applicants must be able to meet the program's published Essential Functions, copies of which are incorporated into the application packet, and express a willingness to comply with the principles, rules, regulations, and policies of both the university and the program as they relate to the ideals and values of the Seventh-day Adventist Church and the clinical laboratory science profession.

All prerequisite course work, including General Education, cognate science, and pre-clinical courses, must be completed prior to entry into the clinical year. A personal interview may be required at the discretion of the Admissions Committee.

In exceptional circumstances, the Admissions Committee may accept students outside the stated policy.

Student Progression in Clinical Year. The clinical year is highly structured and sequential. Enrolled students may not drop a class, audit a class, or earn a grade lower than C- in any class. Students may enter clinical practica only upon satisfactory completion of on-campus course work. Satisfactory completion is defined as a senior-year minimum cumulative GPA of 2.50 and the recommendation of the faculty. A student receiving a cumulative GPA of less than 2.50 may be allowed to advance if the program faculty identifies exceptional circumstances and recommends that the student continue in the program.

Student continuance in the clinical practica is conditional upon acceptable ethical deportment and exemplary patient-care practices. The hospital supervisors and program faculty are final arbiters in determining student continuance.

Professional Certification. Students who complete the degree program are eligible to write national certification examinations sponsored by the American Society of Clinical Pathologists (ASCP) and the National Certification Agency of Medical Laboratory Personnel (NCA).

Program Accreditation. The Andrews University Program for Clinical Laboratory Sciences holds accreditation from the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 West Bryn Mawr Avenue, Suite 670, Chicago, IL 60631-3415, (773) 714-8080.

ACADEMIC CALENDAR 2000-2001

March 9 On-campus Didactic Studies end
March 19 Clinical practicums begin
May 11 Senior Spring semester (Clinical) ends
May 14 Senior Summer semester (Clinical) begins
July 27 Senior Summer semester (Clinical) ends
August 6 Beginning of Registry Review Week
August 11 Certification ceremony