Program Guide

Applied Studies Division

Histotechnology

• Associate of Applied Science Degree in Histotechnology

Opportunity starts HERE
lakelandcc.edu
A histotechnician is an individual who is trained in the preparation and staining of tissue slides for microscopic examination and disease diagnosis by the pathologist. Histotechnicians may preserve organs for later examination and perform enzyme and immunohistochemistry techniques. Histotechnicians may also assist the pathologist in the preparation of frozen tissue sections which are used to provide rapid diagnosis.

**Career Opportunities**

Employment in the histotechnology field is projected to grow 22 percent through 2022.

An increase in the aging population will lead to a greater need to diagnose medical conditions, such as cancer or Type 2 diabetes. Professionals in the histotechnology field fill a vital role in preparing the slides for pathologists to examine.

Motivated histotechnicians can go on to earn a bachelor’s degree to become qualified to take the higher level certification exam to become histotechnologists. Students could also pursue a master’s degree to find careers as a pathologist’s assistant.

Histotechnicians practice in numerous settings including hospitals, clinics, independent labs, research laboratories, and veterinary and forensic pathology laboratories.

**Lakeland’s Program**

Lakeland’s histotechnician program is a two-year program leading to an Associate of Applied Science degree in histotechnology. The program combines basic science, general education, laboratory techniques, and clinical laboratory experiences. Lakeland students receive personal attention from faculty currently employed in the medical field and gain hands-on training in a simulated hospital laboratory on campus. In addition, the program provides students with 480 clinical-training hours at area laboratories. Lakeland’s histotechnician program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences.

A fast track into the field is available for students who already have a bachelor’s degree in biology or chemistry or have already met additional courses in the program. Please contact the program director to see if you qualify.

**The Lakeland Advantage**

- Small class sizes allow for individual instruction.
- This is a two-year program leading to an Associate of Applied Science degree.
- Students gain 16 weeks of clinical experience.
- Graduates are eligible to take the ASCP Board of Certification exam.

**For more information**

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National Accrediting Agency for Clinical Laboratory Sciences
5600 N. River Road, Suite 720, Rosemont, IL 60018
773.714.8880 • naacls.org
A histotechnician is an individual who is trained in the preparation and staining of tissue slides for microscopic examination and disease diagnosis by the pathologist. Histotechnicians may be employed in a variety of areas, such as hospitals, clinics, doctors’ offices, research, veterinary pathology, marine biology, and forensic pathology. Histotechnicians may preserve organs for later examination and perform enzyme and immunohistochemistry techniques. Histotechnicians may also assist the pathologist in the preparation of frozen tissue sections which are used to provide rapid diagnosis.

Mission
Lakeland Community College’s Histotechnology Program prepares students to enter this field with entry-level knowledge, competencies, ability and problem-solving skills needed to function in the routine pathology laboratory setting.

Graduates of the program will be eligible for:

- Employment as an entry level practitioner in hospitals, clinics, doctor’s offices, and research facilities.
- Transfer to a bachelor degree program
- The national certification examination for HT given by ASCP (American Society of Clinical Pathology)
- Possess the skills of current histotechnology practices as entry level practitioners

Program Outcomes/Goals
The outcomes/goals of the Histotechnology Program will be to:

1. Provide the students with the knowledge and technical skills for career entry into the profession of histotechnology.
2. Prepare students to meet the criteria to sit for the ASCP Board of Registry Examination for Histotechnology.
3. Cultivate personal growth and development through humanities, social science, and communication courses.
4. Develop interpersonal skills and attitudes needed to interact with clients, laboratory staff and other researchers, pathologists, and healthcare professionals.
5. Promote students’ awareness of medical ethics and develop their professionalism.

All students enrolled in a nursing or allied health program/certificate must complete a criminal background check. In accordance with clinical site requirements, students with a criminal record may be ineligible to participate in a clinical course/rotation/practicum. Delays, for any reason, in obtaining background results may cause an interruption in the clinical rotation sequence or inability to complete program requirements. Additional background screening may be required by individual facilities.

Drug testing may be requested in accordance with clinical affiliation requirements and/or for patient/student health and safety.

A minimum GPA of 2.0 and a "C" grade or higher is required in all histotechnology and general education courses as listed in the curriculum guide for the AAS degree in histotechnology.

Admission Procedures
Students must meet specific admission requirements for this program. Listed below are requirements for admission to the Histotechnology Program:

Option 1: High School Option
This option is for current high school seniors or high school graduates who apply to the program within two years of high school graduation.

- Complete college application(s).
- Composite score of 21 or higher on the American College Test (ACT) or combined score of 940 on the Scholastic Aptitude Test (SAT).
- Place into MATH 1330 Statistics for the Health Sciences or higher or pass MATH 0850 Beginning Algebra.
- Complete high school algebra, chemistry, and biology with a "C" grade or higher.
- An overall high school GPA of 2.5 on a 4.0 scale or equivalent.
- Meet with the program director and counselor to review program prerequisites and requirements.

Upon successful completion of the above criteria, the applicant will be admitted into the program. Students must complete HLTH 1215 Medical Terminology for Health Professions with a "C" grade or higher prior to enrolling in their first health technology course.
Option 2: College Option
This option is for students who do not qualify for admission under Option 1.

- Complete college application(s).
- Submit high school transcript as well as any college transcript(s).
- Successful passing score on the required program pre-admission test.
- Meet with a counselor to review program prerequisites and requirements.
- Students must have a cumulative GPA of 2.0 or higher in program applicable courses. The following courses, or equivalent courses from other regionally accredited colleges, must be completed with a combined minimum cumulative GPA of 2.5 or higher and a "C" grade or higher.
  - HLTH 1215 Medical Terminology for Health Professions
  - BIOL 2210 Anatomy and Physiology I

**NOTE:** Students must meet one of these requirements to take BIOL 2210 Anatomy and Physiology I with a "C" or higher:

1. High school biology within last five years and high school chemistry.
2. High school biology within last five years and CHEM 1100 Elementary Chemistry.
3. BIOL 1200 Fundamentals of Biology for the Health Technologies.

Students are required to take the Math Placement Test and be placed into MATH 1330 Statistics for the Health Sciences or complete MATH 0850 Beginning Algebra with a "C" grade or higher.

Option 3: Advanced Education Option
Students pursuing this option must have an Associate of Applied Science Degree in Nursing or Allied Health, Bachelor of Science Degree in a natural science, or an Associate of Science Degree to be waived from the preadmission testing. All other Option 2 requirements apply.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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<tr>
<td>BIOL 2210</td>
<td>Anatomy and Physiology I</td>
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<td>CHEM 1100</td>
<td>Elementary Chemistry</td>
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<td>ENGL 1110</td>
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<td>or ENGL 1111</td>
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<tr>
<td>FYEX 1000</td>
<td>First Year Experience</td>
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<tr>
<td>HSTY 1100</td>
<td>Introduction to Histotechnology [[</td>
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<td>HSTY 2100</td>
<td>Histology</td>
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<td><strong>Second Semester</strong></td>
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<td>Anatomy and Physiology II</td>
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<td>Introduction to Electronic Health Records</td>
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<tr>
<td>HSTY 2050</td>
<td>Histochemistry [[</td>
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<td>HSTY 2250</td>
<td>Histotechnique [[</td>
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<td><strong>Summer</strong></td>
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<td>BIOL 2700</td>
<td>Microbiology</td>
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<td>BIOS 2901</td>
<td>Clinical Molecular Diagnostics [[</td>
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<td><strong>Third Semester</strong></td>
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<td>ENGL 1120</td>
<td>English Composition II</td>
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<td>HSTY 2151</td>
<td>Specialty Areas in Histotechnology [[</td>
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<td>HSTY 2220</td>
<td>Theory and Practice of Immunohistochemistry [[</td>
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<tr>
<td>MATH 1330</td>
<td>Statistics for the Health Sciences [[</td>
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<td><strong>Credit Hours</strong></td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>COMM 1050</td>
<td>Fundamentals of Public Speaking [[</td>
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<td>or COMM 1150</td>
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<tr>
<td>or Fundamentals of Interpersonal Communications</td>
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HSTY 2300  Histotechnician Clinical Directed Practice  6
HSTY 2400  Histotechnician Seminar  2
PSYC 1500  Introduction to Psychology  3
or SOCY 1150  Principles of Sociology
Credit Hours  13
Total Credit Hours  63

1 English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the degree).
2 Students may substitute MATH 1550 Statistics. This 4 credit course may be required for students transferring to a four-year college.
3 Students may substitute COMM 1100 Effective Interpersonal Communications. This 3 credit course may be required for students transferring to a four-year college.

This course is designated as a technical course in the program. Students must earn a "C" grade or higher in the course to fulfill the college's graduation requirements policy.
Quality Education
Professors at Lakeland are experts in their fields with real-world experience. Lakeland prepares you for a high-demand career or for transfer to a four-year college or university. Access to bachelor’s and graduate degrees is available on campus from partner institutions through Lakeland’s Holden University Center (lakelandcc.edu/uc).

Affordable Tuition
Lakeland’s tuition is about one-third the cost of most four-year schools. More than 50 percent of Lakeland students receive some form of financial assistance (lakelandcc.edu/tuition).

Convenience
Lakeland offers convenient day, evening, weekend and online courses (lakelandcc.edu/schedule).

Focus on Students
Lakeland offers a variety of student services to help you succeed, such as counseling, tutoring, computer labs, career services, free parking and affordable child care.

Opportunity starts HERE

Visit us on campus or online. Call 440.525.7900, email recruitmentcenter@lakelandcc.edu or visit lakelandcc.edu/visit for a campus tour.

Apply online: lakelandcc.edu/apply