College of DuPage
Clinical Laboratory Science
Transfer Program

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Overview
The clinical laboratory scientist (CLS) performs a variety of laboratory tests. The results of these laboratory tests help physicians evaluate, diagnose, and monitor medical treatment. Many of the complex laboratory tests uncover diseases such as AIDS, diabetes, leukemia and many others.

The CLS is responsible for confirming the accuracy of test results by maintaining and performing quality control on the instrumentation found within the laboratory. A clinical lab scientist must work quickly and accurately. The CLS holds life and death in their hands as the information they report to physicians will influence the medical treatment patients receive.

A CLS does more than examine specimens through a microscope; they operate highly complex instrumentation and correlate precision instruments. There are five clinical areas that make up the clinical laboratory: Blood Bank (Immunohematology); Hematology; Coagulation and Urinalysis; Chemistry; Immunology; and Microbiology.

A clinical laboratory scientist is a problem-solver who likes challenge and responsibility. A CLS must be accurate, reliable, work well under pressure, and are able to finish a task once started. Individuals in this career must also possess excellent communication skills, set high standards for themselves and expect quality in the work they do. They are also deeply committed to their profession and are fascinated in science-related research.

Career Opportunities:
A clinical laboratory scientist has various career opportunities. Hospitals, independent labs, research labs, outpatient clinics, public health facilities, forensic medicine and the pharmaceutical industry have positions for qualified clinical laboratory scientists. Additional opportunities are available in molecular diagnostics, molecular biotechnology, in vitro fertilization laboratories, and research laboratories.

A career in clinical laboratory science is listed as one of the top twenty jobs available today. In Illinois, the number of jobs for clinical lab scientists is expected to grow faster than average. Research shows there will be about 240 jobs available each year in the state of Illinois. Thirteen percent of the current laboratory staff will likely retire in the next five years, according to a 2011 survey. Hiring qualified staff to replace retired workers will prove tough with fewer people becoming trained. The U.S. Department of Health and Human Services reports that by 2012, 138,000 lab professionals will be needed, but fewer than 50,000 will be trained. The number of medical tests, treatments, and procedures will continue to grow each year due to our aging population; this means more jobs, however half of all laboratories nationwide will struggle to hire qualified laboratory personnel. For more information about the job outlook for clinical lab science visit the U.S. Department of Labor Bureau of Labor Statistics website.

College of DuPage CLS Transfer Program
College of DuPage offers a transfer program in Clinical Laboratory Science in partnership with Northern Illinois University, Illinois State University, and Rush University Medical Center. A student completes an Associate in Science (AS) at College of DuPage and then transfers into a Clinical Laboratory Science program as a junior at one of the affiliated schools. Individual requirements may vary slightly among each school; students should consult an adviser before completing an AS degree.
Mission Statement
The goal of the CLS Transfer Program is to provide students with didactic and laboratory experiences in preparation for a health care career as a Clinical Laboratory Scientist. Upon completion of the AS degree at College of DuPage and the Bachelor of Science (BS) degree from the transfer university the student will deliver accurate laboratory test results to physicians and will function as an integral member of the health care team with competence and confidence.

Program Information Disclaimer
This program information packet is published for that purpose; however, the information in this packet is not to be regarded as an irrevocable contract between the student and the program. The program reserves the right to change, at any time, without notice, requirements, fees and other charges, curriculum, course structure and content, and other such matters as may be within its control, notwithstanding any information set forth in the program information packet in accordance with the College of DuPage policies and procedures.

Standard Skills in Clinical Laboratory Science
To participate in the CLS transfer program the student must possess additional non-academic skills. These technical standards are consistent with the duties of the entry-level technician in a professional position. These skills, which protect the health and well-being of patients, may include but are not limited to the ability to:

- adhere to safety procedures
- analyze numerical or statistical data
- maintain records, reports, or files
- verify completeness or accuracy of data
- prepare sample for laboratory testing, analysis, or microscopy
- use precision measuring tools or equipment
- use computers to enter, access or retrieve data
- manipulate the appropriate equipment for laboratory testing
- perform for a prolonged period without breaks in a typical shift of 8 hours
- demonstrate visual acuity to assess the equipment and to differentiate colors
- respond appropriately to sound and light
- communicate orally and in writing in the English language with patient, doctors, and other personnel clearly and effectively
- follow verbal and written direction in the English language

If you are uncertain of your ability to perform these essential functions or feel you need reasonable accommodations to perform them, please consult with Special Student Services, SSC 3249.

Non-discrimination Statement
The College prohibits discrimination in its admissions, employment, and educational programs or activities on the basis of race, color, sex, religion, creed, national origin, age, ancestry, marital status, sexual orientation, gender identity and expression, arrest record, military status or unfavorable military discharge, citizenship status, and physical or mental disability. The College will protect an individual’s right to express their viewpoint or opinion, so long as it does not violate State or Federal law and is not detrimental to the College.

This Policy against discrimination applies throughout all College environments, whether on campus, at work assignments off campus, at College-sponsored social functions, or otherwise.

Procedures to facilitate the College’s prohibition of discrimination will be promulgated consistent with the Policy. (Board Policy 20-5).
**Student Email Policy**

College of DuPage will send all official communications to you through your official COD email (dupage.edu). You will no longer be able to use a preferred email account. You do have the option to forward these communications to a personal email account if you wish.

Check out your COD email to get the message about:
- Official COD communication
- Financial aid communications
- Petition to graduate
- Transfer credit evaluation
- Prerequisite proof
- Sensitive
- FERPA-related communications
- Transcript order
- Important messages from instructors

http://www.cod.edu/academics/email.aspx

**Citizenship/Visa Status**

If you are not a U.S. citizen or a permanent resident of the U.S., and if you have any questions or concerns regarding your eligibility to participate in the Clinical Laboratory Science program, please contact the International Student office, SSC 2225, (630) 942-3328, e-mail: intlstdt@cod.edu.

**College Admission**

In order to register for courses students must submit a College of DuPage Admission Form online or in person in the College of DuPage Admissions & Outreach office, SSC 2207 and pay the non-refundable $20 application fee. This is an admission form for the College of DuPage only. Students will receive a My Access ID number after completion of admission paperwork. The ID number is used to register for courses.

**Course Requirements**

CLS is an intensive program with a heavily based science/chemistry curriculum. The student will complete an AS degree in order to transfer into an affiliated CLS program to earn a bachelor’s degree. Course requirements may vary depending on the transfer university.

Students must attend individual advising sessions on a regular basis with program coordinator to review academic course work. Please speak with an adviser as you complete your AS degree to make sure you have all the necessary courses for transfer.

**Transfer Agreements**

College of DuPage currently has transfer agreements with Northern Illinois University, Illinois State University, and Rush University Medical Center.

*NOTE: There may be specific courses required by each university not listed above. Contact an adviser for specific courses necessary for transfer.*

**International Student Admission**

Prior credits earned at institutions outside the Continental U.S. must be translated and evaluated in detail for credit that is acceptable to the College of DuPage.

**Clinical Laboratory Science Advising Sessions**

The Clinical Lab Science advising sessions will be held on an individual basis. Please contact Nancy Feulner at (630) 942-2124 or Feulner@cod.edu to set up an advising session.
### General Education and Core Curriculum to include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1101</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>English 1102</td>
<td>Composition</td>
<td>3</td>
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<tr>
<td>Speech 1100</td>
<td>Fundamentals of Speech</td>
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<tr>
<td>Humanities &amp; Fine Arts</td>
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<tr>
<td>Social &amp; Behavioral Sciences</td>
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<td>9</td>
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<tr>
<td>*Chem 1212</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Chem 1551</td>
<td>Principles of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Chem 1552</td>
<td>Principles of Chemistry</td>
<td>5</td>
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<tr>
<td>**A&amp;P 1500</td>
<td>Survey of A&amp;P</td>
<td>4</td>
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<td>Bio 1151</td>
<td>Principles of Biology</td>
<td>5</td>
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<td>Bio 1152</td>
<td>Principles of Biology</td>
<td>5</td>
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<td>Micro 1420</td>
<td>Microbiology</td>
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<tr>
<td>**Math 1218</td>
<td>General Education Math</td>
<td>3</td>
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<tr>
<td>**Math 1533 or 1635</td>
<td>Finite Math/Statistics</td>
<td>4</td>
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<tr>
<td>Health Science 1110</td>
<td>Biomedical Terminology</td>
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<td>Health Science 1120</td>
<td>Intro to CLS</td>
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<tr>
<td>**CIS 1400</td>
<td>Logic and Programming</td>
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**Total Hours: 76 hours**

* Students without high school chemistry may need to take a general chemistry course (Chem 1211) before Chem 1212
** Affiliated transfer universities may require a different course than the one listed.