WESTERN COLLEGE ALLIANCE FOR MEDICAL LABORATORY SCIENCE (WCAMLS)
APPLICATION TO THE CLINICAL YEAR

DIRECTIONS: In order for your application to be considered a complete application must be received.

Required Application Materials:
1) An UNOFFICIAL transcript of all college level coursework MUST accompany this application.
2) One letter of reference from your MLS/CLS academic advisor is required (no other reference letters are necessary).
3) Submit proof of your initiation of the criminal background check (receipt of payment).
4) Critical Analysis Passage (Separate piece(s) of paper).
5) Personal Statement (Separate piece(s) of paper).

Application deadline: November 1, 2016 (must be received by the UND MLS program)

Academic Requirements needed for Admission to the UND MLS Professional Program
- A cumulative GPA of 2.800 on a scale of 4.000
- No more than one grade of D in any math or science courses.
- No standing D's in any MLS/CLS course (or equivalent course)
- All pre-requisites must be successfully completed before advancement into the summer session.
- A maximum of two science courses repeated.
- A maximum of one MLS course repeated

An evaluation of your application and recommendation for acceptance or non-acceptance will be completed by the UND MLS Academic Standards Committee. You will be notified by email of acceptance or non-acceptance by December 1, 2016. Program acceptance is a competitive process with a limited number of positions available annually.

In addition to acceptance to the UND MLS program, all students must meet requirements established for admission to The University of North Dakota.

IN THIS BOX PRINT OR TYPE IN YOUR INFORMATION
Full Name (List as First Name, Middle Initial, Last Name)_______________________________
Address (include City/State/Zip)_____________________________________________________
*School E-mail Address__________________________________________ Cell Phone#
*Please list school email.
Emergency Contact Name________________________ Emergency Contact Phone #__________
Address (include City/State/Zip)_____________________________________________________

I understand I will enter The University of North Dakota summer curriculum as a WCAMLS student. I will earn my degree from my home institution (List Institution ______________________________________)
(City)________________________, (State)_______________ and receive a certificate in Medical Laboratory Science from The University of North Dakota.
I have/will have earned a BS degree in _____________________________ (List Field of study), (Mth_____/Yr_____/).

EDUCATION HISTORY

<table>
<thead>
<tr>
<th>Name of Institution</th>
<th>Attendance Date (Years)</th>
<th>Address: (City/State)</th>
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<tbody>
<tr>
<td>High School:</td>
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<tr>
<td>Univ/College:</td>
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<tr>
<td>Degree Earned:</td>
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<td>Univ/College:</td>
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<tr>
<td>Degree Earned:</td>
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<tr>
<td>Other:</td>
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<tr>
<td>Degree Earned:</td>
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</table>

• GPA (required): Overall________

If your overall GPA is less than a 2.800 cumulative you will need to complete a petition form (http://www.med.und.edu/medical-laboratory-science/_files/und-mls-professional-program-petition.pdf) and submit it with this application for consideration to the MLS Academic Standards Committee.

CLINICAL PRACTICUM

Using the clinical affiliation site list (http://www.med.und.edu/medical-laboratory-science/mls-clinical-affiliates.cfm), indicate your 1st, 2nd, and 3rd choice. Note that sites occasionally request to become inactive for any given year. Every effort will be made to honor one of your three choices but you may be assigned a site that is not one of your top three choices. If your application is received AFTER NOVEMBER 1, you will no longer qualify for the initial site selection process but you will be placed at a program clinical affiliate.

<table>
<thead>
<tr>
<th>Clinical Affiliate Site Name</th>
<th>City, State</th>
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<tbody>
<tr>
<td>Choice 1</td>
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<tr>
<td>Choice 2</td>
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<tr>
<td>Choice 3</td>
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**Essential Functions** represent the non-academic requirements of the program that all students must master to successfully participate in the program and become employable.

The UND School of Medicine has defined Technical Standards for Matriculation, Progression, and Graduation ([http://www.med.und.edu/policies/_files/docs/technical-standards.pdf](http://www.med.und.edu/policies/_files/docs/technical-standards.pdf))

All students, and therefore, all applicants are expected to:

**Vision**: be able to read and interpret charts, graphs, and labels; read and interpret instrument panels and printouts, discriminate colors, hue, shading or intensity and clarity, read microscopic material and record results.

**Speech** and Hearing: be able to communicate effectively and sensitively in order to assess non-verbal communication; adequately transmit information; follow verbal or written communication.

**Motor Functions**: possess all skills necessary to carry out diagnostic procedures; manipulate tools, instruments and equipment; perform phlebotomy safely and accurately; travel to a clinical site for practical experience.

**Behavioral Requirements**: possess the emotional health required for full utilization of applicant's intellectual abilities; be able to recognize emergency situations and take appropriate action.

**Physical Requirements**: be able to complete fine repetitive hand movement; twist and bend; handle flammable and infective materials; handle hazardous chemicals and electrical equipment, lift 10 lbs.; maintain prolonged sitting or standing positions; maintain concentration with distracting noises and close proximity to fellow workers; tolerate unpleasant odors, work in building either above or below ground level; work in an environment without windows; and perform keyboarding.

**Critical Thinking**: be able to appropriately perform complex interpretative testing.

**Professionalism**: be able to maintain a professional attitude, appearance and patient confidentiality.

**Do you feel you meet ALL Medical Laboratory Science essential functions listed above?**

*Yes / No*
CRIMINAL BACKGROUND CHECK

A Criminal Background Check is required of each student prior to admission into the MLS program. The UND School of Medicine and Health Sciences has an agreement with Verified Credentials, Inc. for the criminal background check. You must complete the UND background check and applicants are responsible for the cost of approximately $45. You must submit proof of background check submission (receipt of payment) with the complete application.

Steps for completing the UND Verified Credentials – Scholar Background Check:

1. Go to: http://scholar.verifiedcredentials.com/UND
2. First time users: Enter in the appropriate school code:
   USA Citizen School Code: PPJJX-74494          Canada Citizen School Code: VWJVG-84848
3. If you are a new applicant, you must create an account. When creating the account please use an email address that you access regularly as you will be asked to renew your background check (for an additional fee) when you arrive on-campus for classes in the summer session.
4. Once you access the system make sure that you are completing the University of North Dakota – Medical Laboratory Science Program Background Check. If you are unsure what background check you are completing, make sure that you are under the “Home” tab and enter in the code in the box.
5. Proceed through the background check requirements and submit payment. You must submit proof of background check payment (receipt of payment) with this application.

Additional application questions

1. Have you ever been reprimanded, placed on probation, disciplined, suspended, sanctioned, or dismissed from any college, university, graduate school, professional school (including any other MLT/MLS program), professional organization or licensing agency for any reason? Yes / No
   If the answer to #1 is yes, you must provide a letter or other documentation from the college, university, graduate school, professional school, professional organization or licensing agency describing the events which led to your being disciplined including the sanction imposed. In addition to the documentation from the college, university, graduate school, professional school, professional organization, or licensing agency, you must provide your own personal explanation on a separate sheet describing the events that led to you being disciplined. Failure to submit this documentation in a timely manner may cause your admission status to the Medical Laboratory Science program to be denied or withdrawn.

2. Have you ever been arrested for, charged with, pled guilty to, been convicted of or adjudicated guilty of, or paid any fines or penalties as a result of any violation of any law, ordinance, criminal or military law? You may omit minor traffic violations such as speeding tickets and parking violations. You may not omit serious traffic violations such as driving under the influence of alcohol or drugs, reckless driving, driving without insurance, damage to property, or driving with a suspended or revoked license. Yes / No

3. Have you ever been accused or charged in a court-martial proceeding or received a less than an honorable discharge from any branch of the armed services of the United States of America? Yes / No
   If the answers to either of the above question 2 or 3 are yes, you must provide records from the court or military office documenting the charge and the disposition of that charge, including any sanctions imposed. In addition to the documentation from the court or military office, you must provide your own personal explanation on a separate sheet describing the events that led to the charge(s). Your file will not be considered complete and it will not be reviewed until this documentation has been submitted. Failure to submit this documentation in a timely manner may cause your admission status to the Medical Laboratory Science program to be denied or withdrawn.
PLEASE COMPLETE BOTH PART A & PART B OF SUPPLEMENTAL APPLICATION MATERIALS AND SUBMIT WITH YOUR APPLICATION.  
(PLEASE ANSWER A AND B ON SEPARATE SHEETS OF PAPER)

PLEASE COMPLETE BOTH PART A & PART B OF SUPPLEMENTAL APPLICATION MATERIALS AND SUBMIT WITH YOUR APPLICATION.  (PLEASE ANSWER SEPARATELY).

PART A: CRITICAL ANALYSIS PASSAGE
Directions: On a separate piece of paper (place your name at the top of each), answer the following questions in your own words, based ONLY on the procedure below. Use complete sentences. A word-processed response is expected. DO NOT use sources other than the passage/information shared below.

LEUKOCYTE ALKALINE PHOSPHATASE STAIN (LAP) PROCEDURE
1. Prepare the staining solution according to package insert immediately before use.
2. After collection, place the air dried blood smears in a coplin jar containing citrate buffered acetone (fixative) for 30 seconds.
3. Carefully rinse the smears in running distilled water for 45 seconds. Do not allow smears to dry.
4. Place smears in the staining solution for 30 minutes at room temperature.
5. Wash smears in distilled water for 2 minutes. Do not allow smears to dry.
6. Counterstain with Mayer’s hematoxylin for 10 minutes. Rinse smears in distilled water for 3 minutes.
7. Examine the smears microscopically in a relatively thin area of the smear using the oil immersion objective (100x). Count 100 consecutive neutrophils and grade each one from 0 to 4+ on the basis of the appearance (quantity and intensity) of the precipitated dye in the cell. The cytoplasm of the cells will be colorless to pale blue.
8. The total rating for 100 neutrophils is determined by multiplying the number of cells in each group by its rating and adding these numbers together for the total LAP score. The normal range for this test is 30 to 185. Decreased LAP scores are associated with chronic myelogenous leukemia, while increased LAP scores are seen in leukemoid reactions.

Directions: On a separate piece of paper (with your name), type answers to the following questions in your own words, based on the above procedure. Use complete sentences. DO NOT use sources other than the above passage.

1. What should be done immediately after cleaning the smears with distilled water for 2 minutes?

2. Calculate the LAP score for a sample that gave the following staining results (show your work).

<table>
<thead>
<tr>
<th># of Neutrophils</th>
<th>8</th>
<th>11</th>
<th>23</th>
<th>27</th>
<th>31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade</td>
<td>0+</td>
<td>1+</td>
<td>2+</td>
<td>3+</td>
<td>4+</td>
</tr>
</tbody>
</table>

3. Indicate whether the LAP score you recorded for question 3 is increased, decreased, or normal when compared to the normal reference interval. Would you believe that this result came from a patient with Chronic Myelogenous Leukemia? Explain why or why not.

4. A person did everything according to the above procedure, except he/she counted a total of 80 neutrophils. How might this impact the final LAP result? Do you think the LAP score generated would be accurate? Explain.

5. Read the following scenario. Describe all instances where the procedure was not followed, and indicate what should have been done instead.

Scenario: A laboratory employee made LAP stain according to the package insert. She then gathered the dried smears that needed to be stained, and placed them in a coplin jar of acetone fixative for 30 seconds. She then rinsed the smears with a steady stream of distilled water for 45 seconds. She left the smears at room temperature for 30 minutes, and then stained them for 30 minutes, also at room temperature. After staining, she rinsed the smears for 2 minutes with distilled water, and then immediately placed the smears in the counterstain for 2 minutes. She then did a final rinse with distilled water for 3 minutes, and began microscopic evaluation.
Part B: SELF ASSESSMENT

"Why Medical Laboratory Science?" It is a simple, yet basic question that relates to each student in the MLS academic program. The following questions are designed to cause you to reflect personally on the MLS profession and assist the Admission Committee to become better acquainted with you. Please use your own words. Responses are expected to exhibit a college level of writing which includes correct spelling, grammar, sentence structure, and punctuation. The self-assessment piece is expected to be submitted word-processed while still answering each of the following questions individually.

1. Why do you want to become a medical laboratory scientist?
2. What personal, positive qualities do you have that you feel would be an asset to you in this profession?
3. What reservations, if any, do you have concerning this profession?

Signature__________________________________________________ Date______________________

The UND MLS program is accredited by the National Accrediting Agency for CLS (NAACLS)
5600 N River Rd Suite 720, Rosemount, IL 60018-5119

Equal Opportunity Statement
It is the policy of the University of North Dakota that no person in the United States shall be discriminated against because of race, religion, age, color, gender, disability, national origin, creed, sexual orientation, gender identity, marital status, veteran’s status, or political belief or affiliation and the equal opportunity and access to facilities shall be available to all. This policy is particularly applicable in the admission of students in all colleges, and in their academic pursuits. It also is applicable in the University-owned or University-approved housing, food services, extracurricular activities and all other student services. It is a guiding policy in the employment of students either by the University or by outsiders through the University and in the employment of faculty and staff. Concerns regarding Title IX, Title VI, Title VII, ADA, and Section 504 may be addressed to Donna Smith, Director of Equal Employment Opportunity/Affirmative Action and Title IX Coordinator at 701-777-4171, und.affirmativeactionoffice@und.edu or the Office for Civil Rights, U.S. Dept. of Education, 500 West Madison, Suite 1475, Chicago, IL 60611 or any other federal agency.