

University of North Dakota School of Medicine & Health Sciences
 Department of Pathology
 Clinical Laboratory Science (CLS) Program
 PO Box 9037, Grand Forks, ND 58202-9037

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

DIRECTIONS: Complete this application and return it to your advisor. Applications must be received by the UND CLS program by November 1st of the year prior to your anticipated participation in the Summer curriculum.

Full Name (no initials) _____

Home Institution _____ City, State _____

Telephone # _____ Social Security # _____

Address _____

E-mail Address _____

Emergency Contact Name _____ Telephone # _____

Address _____

- I have/will have earned a BS degree in _____ (field of study), (Mth____/Yr____). I will enter the University of North Dakota Summer curriculum as a WCACLS student. I will earn my degree from my home institution (name) _____ and will receive a certificate of completion from the University of North Dakota.

EDUCATION HISTORY

	Name of Institution	Dates: (Yrs)			Address: (City/State)
High School:			to		
Univ/College:			to		
	Degree Earned: _____				
Univ/College:			to		
	Degree Earned: _____				
Other:			to		
	Degree Earned: _____				

- **GPA (required):** Overall _____ Science _____
- **Honors** (Prizes, Scholarships, Membership in Honorary Societies, etc.): _____
- _____
- **Extracurricular Activities** (list offices held, if any): _____
- _____
- **Government Services** (Civil/Military/Branch/Dates of Service): _____

EMPLOYMENT HISTORY (Most recent since High School)

Employer and Address	Type of Employment	Dates

CLINICAL PRACTICUM

Using the clinical affiliation site list <http://pathology.med.und.nodak.edu/cls/affiliate.cfm> (linked or follows at end) indicate your 1st, 2nd, and 3rd choice. Note that sites occasionally opt to become inactive for any given year. Every effort will be made to honor your first choice. If your application is received **AFTER NOVEMBER 1**, you will no longer qualify for the initial site section process but you will be guaranteed placement.

Clinical Affiliation Site		City, State
Choice 1:		
Choice 2:		
Choice 3:		

REFERENCES

1. Submit two letters of recommendation from individuals who are able to provide information related to your academic history or employment. One of the two must be from your college/university advisor (you may use the form that follows).
2. Submit a *copy* of your transcript(s) with this application. (An *official* transcript will be required when you officially apply for admission to the University of North Dakota).

Essential Functions represent the non-academic requirements of the program that all student's must master to successfully participate in the program and become employable. 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 and appearance.

Do you feel you meet the clinical laboratory science essential functions listed above?: YES or NO

CRIMINAL BACKGROUND CHECK

All students enrolled at the UNDSMHS are required to complete a criminal background check prior to entering an assigned clinical practicum site.

1) Have you ever been reprimanded, placed on probation, disciplined, suspended, sanctioned, or dismissed from any college, university, graduate school, professional school, professional organization or licensing agency for any reason? Yes / No

If the answer to this 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 Clinical Laboratory Science program to be denied or withdrawn.

2a) 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

2b) 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 questions 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 Clinical Laboratory Science program to be denied or withdrawn.

CRITICAL ANALYSIS PASSAGE

Please review the following pieces of scientific information and answer the following questions using the information provided.

Platelet Maturation and Function (adopted from Linne & Ringsrud, 5th edition)

One formed element of the blood is the platelet or thrombocyte. Platelets are produced in the bone marrow by cells called megakaryocytes, which are large and multi-nucleated. Platelets do not have a nucleus and are not actually cells; they are portions of cytoplasm pinched off from megakaryocytes and released into the blood stream.

Mature platelets are small, colorless bodies. Platelets are generally round or ovoid, although they may have projections called pseudopods. Platelets have a colorless to pale blue background substance containing centrally located, purplish red granules.

In the bloodstream, platelets are an essential part of the blood-clotting mechanisms. They act to maintain the structure or integrity of the endothelial cells lining the vascular system by plugging any gaps in the lining. They also function in the clotting process by (1)acting as plugs around the opening of a wound and (2)releasing certain factors that are necessary for the formation of a blood clot.

Components found in blood.				
Nomenclature	Overall Size (µm)	N/C Ratio	Nuclear Characteristics	Cytoplasmic characteristics
Segmented Neutrophil	10-16	1:1	Elongated, curved	Specific blue-pink granules
Monocyte	12-18	2:1-1:1	Horseshoe-shaped, folded, lacelike chromatin	Vacuoles common, blue-gray, abundant
Thrombocyte	2-4	-----	Anuclear	Light-blue fragments
Megakaryocyte	30-160	1:1-1:12	Lobulated	Pinkish blue, abundant

Answer each question based on the paragraph and table provided. If the question asks you to describe or respond using a short sentence, your answer should be written using your own words and not directly duplicated from the passages or table provided.

What is the size of a platelet?

In your own words, what is one function of a platelet?

Which is larger in size a platelet or a megakaryocyte? Why?

In your own words, describe how a platelet is produced?

Rank the following cells based on size from largest to smallest of the following cells:

Monocyte, Platelet, Megakaryocyte, Segmented Neutrophil

SELF ASSESSMENT

Why Clinical Laboratory Science?”. It is a simple, yet basic question that relates to each student in the CLS academic program. The following questions are designed to cause you to reflect personally on the CLS profession and assist the Advancement 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 answering the following questions individually.

1. Why do you want to become a clinical 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 CLS program is accredited by the National Accrediting Agency for CLS (NAACLS)
5600 N River Rd Suite 720, Rosemount, IL 60018-5119

*Program accommodations for qualified handicapped persons will be reviewed upon
notification to the CLS program of a prospective student's needs and limitations.*

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9/05

Letter of Reference from College/University Advisor

You have been asked to provide a letter of recommendation for _____

Please mail your recommendation to: University of North Dakota School of Medicine & Health Sciences,
Department of Pathology, PO Box 9037, Grand Forks, ND 58202-9037.

In the space below please comment on the cognitive and psychomotor abilities as they related to the candidate's success in the clinical year of the Clinical Laboratory Science program at the University of North Dakota. Discuss what you believe are the candidate's level of oral and written expression, emotional maturity, initiative/resourcefulness, strengths and weaknesses, etc.

Name (please print)

Title

Signature

Date