

**University of North Dakota  
Department of Pathology  
Clinical Laboratory Science Program  
(CLS Office 701-777-2634)**

**Fall Semester 2009 Schedule of Graduate Level Course Offerings**

**\*\*\*:\*\*\*\*PLEASE READ:\*\*\*\***  
**CLS GRADUATE PROGRAM ANNOUNCEMENT/LETTER  
FROM PROGRAM DIRECTOR, RUTH PAUR, PhD**  
 Available online at:  
<http://pathology.med.und.nodak.edu/cls/PDF/MSCurriculumChangeSum09.pdf>

- **Congratulations** to the following May 2009 M.S. CLS graduates: Terri Coyle, Barbara Edwards, Becky Kurzinski, Kelly Nelson, Dana Roh, Jennifer Stokes, Kay Rasmussen and Terrence Williams who will graduate in August
- **Welcome** to the new Fall 2009 students: Susan Bishop (NE), Bridget Cartwright (MI), Melissa Donough (WY), Eric Haser (ND), Vivian McMillin (UT), Sushma Pokharel (CO)

**Fall Semester 2009 Course Offerings:**

Course descriptions can be found at: [http://pathology.med.und.nodak.edu/cls/grad\\_courses.cfm](http://pathology.med.und.nodak.edu/cls/grad_courses.cfm)

- CLS 513      Advanced Clinical Immunology for Laboratory Professionals – 2 Credits
- CLS 514      Computer Application in CLS – 2 Credits
- CLS 519      Molecular Diagnostics Laboratory – 1 Credit
- CLS 520      Medical Microbiology Laboratory – 1 Credit
- CLS 521      Seminar - 1 Credit
- CLS 591      Directed Study: Case Studies in CLS - 1 Credit
- CLS 591      Directed Study in Laboratory Medicine (individual topic) -1 or 2 Credits (contact advisor directly to decide on a specific topic according to your program of study)
- CLS 996      Continuing Enrollment - 1 Credit
- CLS 997      Independent Study - 2 Credits

**USE THE INFORMATION PROVIDED BELOW TO REGISTER FOR FALL SEMESTER 2009.  
PLEASE COMPLETE YOUR COURSE REGISTRATION BY AUGUST 21, 2009.**

<http://www.und.edu/dept/registrar/campusconnection/index.htm>

Course #	Course Title	Cr	Class#
CLS 513	Advanced Clinical Immunology for Lab Professionals	2	9822
<b>Course Information:</b> Online course. First lecture will be posted on Blackboard August 31.			
<b>Instructor:</b> David Bradley, Associate Professor, UND Dept of Microbiology & Immunology			
<b>Facilitator:</b> Ruth Paur, <a href="mailto:ruthpaur@medicine.nodak.edu">ruthpaur@medicine.nodak.edu</a>			
<b>Textbook:</b> Murphy K, et al. Janway's Immunobiology. 7 <sup>th</sup> Edition. ISBN: 0-8153-4123-7			
Course #	Course Title	Cr	Class #
CLS 514	Computer Applications in Clinical Laboratory Science	2	9880
<b>Course Information:</b> Online course. First lecture will be posted on Blackboard August 31.			
<b>Instructor:</b> Janna Schill, <a href="mailto:jschill@medicine.nodak.edu">jschill@medicine.nodak.edu</a>			
<b>Textbook:</b> You will need to have Office 2007 Professional as we will be discussing Word, Access, Excel and Powerpoint Applications. In addition several program demos will be used that you will need to download from the web.			
Course #	Course Title	Cr	Class #

CLS 519	Molecular Diagnostics Laboratory	1	9838
<p><u>Course Information:</u> SEE THE LETTER FROM RUTH PAUR LOCATED AT THE VERY BEGINNING FOR FURTHER EXPLANATION OF DATES AND LOCATION, ETC.</p> <p><u>Instructor:</u> Linda Ray, <a href="mailto:lindaray@medicine.nodak.edu">lindaray@medicine.nodak.edu</a></p> <p><u>Textbook:</u> Molecular Diagnostics, Fundamentals, Methods, and Clinical Applications by Buckingham and Flaws. FA Davis Company, PA 2007. ISBN# 13: 978-0-8036-1659-2.</p>			
Course #	Course Title	Cr	Class#
CLS 520	Medical Microbiology Laboratory	1	9881
<p><u>Course Information:</u> SEE THE LETTER FROM RUTH PAUR LOCATED AT THE VERY BEGINNING FOR FURTHER EXPLANATION OF DATES AND LOCATION, ETC.</p> <p><u>Instructor:</u> Ruth Paur, <a href="mailto:ruthpaur@medicine.nodak.edu">ruthpaur@medicine.nodak.edu</a></p> <p><u>Textbook:</u> Koneman's Color Atlas and Textbook of Diagnostic Microbiology. 6<sup>th</sup> Edition. Lippincott Williams and Wilkins, Philadelphia, PA, 2006. ISBN: 13:978-0-7817-3014-3.</p>			
Course #	Course Title	Cr	Class#
CLS 521	Seminar	1	9882
<p><u>Course Information:</u> SEE THE LETTER FROM RUTH PAUR LOCATED AT THE VERY BEGINNING FOR FURTHER EXPLANATION OF DATES AND LOCATION, ETC.</p> <p><u>Course Requirement:</u> . You will need to purchase a compatible microphone, Powerpoint, and the ability to publish a seminar in an online format.</p> <p><u>Instructor:</u> Janna Schill, <a href="mailto:jschill@medicine.nodak.edu">jschill@medicine.nodak.edu</a></p>			
Course #	Course Title	Cr	Class #
CLS 591	DS: Case Studies in CLS	1	9778
<p><u>Course Information:</u> Online course. Course will be available on Blackboard August 31.</p> <p><u>Instructor:</u> Ruth Paur, <a href="mailto:ruthpaur@medicine.nodak.edu">ruthpaur@medicine.nodak.edu</a></p> <p><u>Textbook:</u> None</p>			
Course #	Course Title	Cr	Class #
CLS 591	Directed Study in Laboratory Medicine	1/2	To be determined
<p><u>Course Information:</u> Designed to meet the needs of an individual student in laboratory medicine. The student is required to contact their advisor ASAP concerning topic/credits and class # for registration.</p> <p><u>Instructor:</u> Advisor</p>			
Course #	Course Title	Cr	Class #
CLS 996	Continuing Enrollment	1	9782
<p><u>Course Information:</u> Enrollment is required only if you are graduating in Dec 09 and are <u>not enrolled in any other</u> Fall 09 semester courses. There is a fee of \$100.00 per credit.</p>			
Course #	Course Title	Cr	Class #
CLS 997	Independent Study	2	9780
<p><u>Course Information:</u> To be eligible to register in this course an approved topic proposal and an approved program of study are required to have been completed by the student and approved by the student's advisor and the dean of the graduate school. (This course is taken close to the end of the student's program of study.)</p>			

**Registration:** Please register by **August 21**. If you are unable to register by 8/21, contact Mary Beth McGurran, CLS Administrative Assistant ([mcgurran@medicine.nodak.edu](mailto:mcgurran@medicine.nodak.edu) or 701-777-2634).

- The computer program used by UND to register for your courses is UND Campus Connection. Students will utilize it for registration of courses, viewing class schedule, viewing and paying their bill, viewing final grades, and changing their personal information. To begin:
  1. Go to: (Campus Connection)  
<http://www.und.nodak.edu/dept/registrar/campusconnection/index.htm>
  2. Using your Student ID# and password follow the directions on the top of the page.
  3. If you do not know your Student ID# and password follow the directions at the bottom of the page. If you experience problems contact the Help desk as indicated.
  4. Continue logging in on UND Campus Connection using your ID and password and follow the directions to register.
  5. Hint: Do not “search” for the class number – instead, choose enroll and insert the class number given to you above for each particular course. If you choose search you will not find the class# because we do not make our class #'s available on the UND primary class schedule of courses.

**Change of Personal Information:** VERY IMPORTANT!!

If you have had a change of name, address, phone number, etc., you will want to update this information on the UND main system of UND Campus Connection so that it is always current. Verification of your most current info will be viewed by UND and the CLS program on Campus Connection.

**Blackboard:**

Blackboard is the program used to teach a course. Student enrollment and access into Blackboard will not occur until August 31. If **after** September 1 you have any questions concerning Blackboard, please contact Janna Schill at [jschill@medicine.nodak.edu](mailto:jschill@medicine.nodak.edu). Please note: If you register after August 31 it may be 24 hours before course enrollment occurs. *Final course grades should always be viewed on Campus Connection and not on Blackboard.*

**Email:** All students must activate their U-mail email accounts. If you have been issued a medicine email account please continue to check several times a week. If you have not been issued one be sure to activate your UND U-mail account. <http://und.nodak.edu/>. We will be using your medicine email (if you have one) or your U-mail email to contact you and ask that you use it to contact us. (Students prior to Fall of 08 were issued a medicine email account but beginning fall of 08 we began using UND's U-mail accounts and no longer create new medicine email accounts for students.) If you are using a medicine email account make sure you forward your U-mail emails to it.

**Proctor Information:**

Some courses require the student to provide proctor information so that exams can be mailed. If your instructor is requiring you to provide proctor information they will post their request on Blackboard. At this time you do not need to do anything concerning proctor information.

**Tuition:**

Students who are admitted to the CLS graduate level programs (MS or Certificate) and are not residents of North Dakota or Minnesota will be charged tuition based on the contiguous per credit rate instead of the out of state rate. If you are a resident of MN you need to complete the MN reciprocity form: <http://www.getreadyforcollege.org/hesod/reciprocity/apply1.cfm>

- **IMPORTANT:** Student Account Services does not mail tuition bills. To view your tuition/fees due go to UND campus connection.
- To pay your bill see the payment options offered by Student Account Services:  
<http://www.und.edu/dept/studentaccounts/>

### **Additional Helpful Hyperlinks:**

- UND's Fall semester dates and deadlines:  
<http://www.und.nodak.edu/dept/registrar/timeschedule/fall/dates.html>
- CLS Graduate Course Rotation Schedule:  
<http://pathology.med.und.nodak.edu/cls/PDF/MSrotationf09tospring12.pdf>
- Graduate School Home Page: <http://www.und.edu/dept/grad/>
- Graduate School Handbook:  
[http://www.und.edu/dept/grad/docs/MastersHandbook2008-2009\\_web.pdf](http://www.und.edu/dept/grad/docs/MastersHandbook2008-2009_web.pdf)
- Understanding/Using Campus Connection (Help/Hints):  
<http://www.und.nodak.edu/dept/registrar/campusconnection/connectndinfo.htm>
- Campus Connection Web demo: <http://www.conted.und.edu/coursedev/enroll.htm>
- Student Account Services:  
<http://www.und.edu/dept/busoff/http://www.und.edu/dept/studentaccounts/>

### **Spring 2010 Course Registration and Schedule of Course Offerings:**

To register for spring semester 2010 courses, view the CLS website in mid November of 2009. The class numbers for the courses, etc will be posted in the spring semester announcement. It will replace this Fall 09 announcement currently posted. Courses to be offered Spring 2010 are: CLS 501, 502, 515, 521, 591, 997.

### **CLS Graduate Handbook:**

<http://pathology.med.und.nodak.edu/cls/PDF/GraduateHandbook.pdf>

A worthwhile tool is the CLS graduate handbook (updates will occur during spring semester 2010). It is made available to assist students with frequently asked questions, forms, procedures, timelines, etc. CHECK IT OUT!

### **Assistance:**

If you have any questions, concerns, or require additional information, please feel free to contact Mary Beth McGurran, CLS Administrative Assistant, at [mcgurran@medicine.nodak.edu](mailto:mcgurran@medicine.nodak.edu), or 701-777-2634.

### **Policy Statement (Effective August 1, 2003):**

The following applies to all CLS graduate course students (including M.S. degree and management certificate): If a student desires to enroll in a course out of sequence of the three year course rotation schedule they must request and receive their advisor's and the instructor's permission for course availability.

**Minimum PC Requirements:** In order for students to participate in Internet (online) courses, the following minimum requirements are necessary. The student must have access to the Internet 56K dial-up minimum (high speed access is ideal LAN/Cable/Modem/DSL/Satellite); have a minimum of PC (Windows based) of 450 MHZ, 1GHZ or Higher) or Macintosh G3 or higher, a minimum of 256 MB RAM (1 GB RAM preferred), monitor resolution 1024 X 768 or higher, Microsoft Office 2007 (PC) or Office for MAC 2008 (Macintosh) and Microsoft Windows 2000, XP. A compatible Internet browser is required which include Internet Explorer 6.0 or newer, Mozilla Firefox 1.0.3 or newer, Safari 1.1, 1.2 or newer. If you have specific questions concerning your PC's compatibility please contact Janna Schill at [jschill@medicine.nodak.edu](mailto:jschill@medicine.nodak.edu) or 701-777-6302.