

## Course Information

Date Submitted: 5/4/2016

Current Prefix and Number: MLS - Medical Laboratory Science, MLS 430 CLINICAL MYCOLOGY PARASITOLOGY &VIROLOG

Other Course:

Proposed Prefix and Number: MLS 430

What type of change is being proposed?

Major Change

Should this course be a UK Core Course? No

## 1. General Information

a. Submitted by the College of: HEALTH SCIENCES

b. Department/Division: Clinical Laboratory Sciences

c. Is there a change in 'ownership' of the course? No

If YES, what college/department will offer the course instead: Select...

e. Contact Person

Name: Michelle Butina

Email: mbu228@uky.edu

Phone: 859-218-0852

Responsible Faculty ID (if different from Contact)

Name:

Email:

Phone:

f. Requested Effective Date

Semester Following Approval: Yes OR Effective Semester:

## 2. Designation and Description of Proposed Course

a. Current Distance Learning (DL) Status: Already approved for DL\*

b. Full Title: CLINICAL MYCOLOGY, PARASITOLOGY, AND VIROLOGY

Proposed Title: Clinical Mycology and Parasitology

c. Current Transcript Title: CLINICAL MYCOLOGY PARASITOLOGY &VIROLOG

Proposed Transcript Title: Clinical Mycology &Parasitology

d. Current Cross-listing: none

Proposed – ADD Cross-listing :

Proposed – REMOVE Cross-listing:

e. Current Meeting Patterns

LECTURE: 3

Proposed Meeting Patterns

LECTURE: 2

f. Current Grading System: ABC Letter Grade Scale

Proposed Grading System: *Letter (A, B, C, etc.)*

g. Current number of credit hours: 3

Proposed number of credit hours: 2

h. Currently, is this course repeatable for additional credit? No

Proposed to be repeatable for additional credit? No

If Yes: Maximum number of credit hours:

If Yes: Will this course allow multiple registrations during the same semester? No

2i. Current Course Description for Bulletin: The study of clinically significant fungi, parasites, and viruses. Included are the morphological characteristics, pathogenicity, epidemiological characteristics, laboratory testing and treatment.

Proposed Course Description for Bulletin: The study of clinically significant fungi and parasites. Included are the morphological characteristics, pathogenicity, epidemiological characteristics, laboratory testing and treatment.

2j. Current Prerequisites, if any: Prereq: Admission into the Medical Laboratory Science Program or consent of instructor.

Proposed Prerequisites, if any: Prereq: Admission into the Medical Laboratory Science Program or consent of instructor.

2k. Current Supplementary Teaching Component:

Proposed Supplementary Teaching Component:

3. Currently, is this course taught off campus? No

Proposed to be taught off campus? No

If YES, enter the off campus address:

4. Are significant changes in content/student learning outcomes of the course being proposed? No

If YES, explain and offer brief rationale: Even though the MLS Program does not believe a significant change in this course is being proposed, a rationale is beneficial. In 2010, the MLS Program underwent significant curriculum changes and MLS 430 was a new course that launched. During a global evaluation of the MLS curriculum, in 2015, it became apparent that the virology content was sufficiently covered in MLS 420 Clinical Immunology and Serology (another new course that was launched in 2011). MLS faculty members propose to reduce the number of credit hours of MLS 430 from 3 to 2 and remove virology completely from this course as it is currently sufficiently addressed in MLS 420.

5a. Are there other depts. and/or pgms that could be affected by the proposed change? No

If YES, identify the depts. and/or pgms:

5b. Will modifying this course result in a new requirement of ANY program? No

If YES, list the program(s) here:

6. Check box if changed to 400G or 500: No

## Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: No

Interactive Video: No

Hybrid: No

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?

2. How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.

3. How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.

4. Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degree program being offered via any form of DL, as defined above?

If yes, which percentage, and which program(s)?

5. How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?

6. How do course requirements ensure that students make appropriate use of learning resources?

7. Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.

8. How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (<http://www.uky.edu/UKIT/>)?

9. Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? NO

If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.

10. Does the syllabus contain all the required components? NO

11. I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

**University of Kentucky  
College of Health Sciences  
Department of Clinical Sciences  
Clinical Laboratory Sciences  
Spring 2017**

<b>Course Number/Title/Section:</b>	MLS 430Clinical Mycology and Parasitology Section 001
<b>Course Credit:</b>	2 credits
<b>Course Time /Place:</b>	Distance Learning – Canvas Review/Exam sessions – 102A(Lex), 336B(Haz) Refer to syllabus for dates and times
<b>Course Faculty:</b>	Kim Campbell, MEd., MLS(ASCP) <sup>CM</sup> 126D CTW Bldg. 900 S. Limestone Lexington, KY 40536-0200 Email (preferred for contacting instructor): <a href="mailto:kkcamp1@uky.edu">kkcamp1@uky.edu</a> Office phone: (859) 218-0853
<b>Office Hours:</b>	By appointment

Course Description: The study of clinically significant fungi and parasites. Included are the morphological characteristics, pathogenicity, epidemiological characteristics, laboratory testing and treatment. Prereq: Admission into the Medical Laboratory Science Program or consent of instructor.

Student Learning Outcomes:

Learning Outcome #1: Students will demonstrate entry level knowledge and practical application skills in the area of clinical mycology and parasitology.

Learning Outcome #2: Students will possess the ability to interpret clinical results and apply trouble-shooting skills while practicing self-validation of their findings.

**General Course Objectives :**

Upon completion of this course, the successful student will:

Cognitive objectives

1. Describe the general characteristics of fungi and parasites. Compare and contrast the groups in terms of cellular structure and growth requirements.
3. Describe the epidemiology for each agent, listing the mode of transmission, reservoir, host range and portal of entry.
4. For each organism discussed list virulence factors and predict their mechanism of action in the host.
5. Describe methods of laboratory testing and means of identification of each agent.
6. Identify the pathogenesis of each agent discussed.
7. For each infection discussed, list treatments and note if a vaccine is available.

Affective Objective:

1. After completion of the lectures, the student will demonstrate appreciation of the important role that fungi and parasites play in disease states.

**Required Text:**

Mahon, Lehman, Manuselis: "Textbook of Diagnostic Microbiology, 4<sup>th</sup> Ed.", Maryland Heights, MO, 2011, W.B. Saunders Co. Elsevier Publishers. (Same textbook used in MLS 461)

**Required CDs** – GermWare – Mycology and Parasitology, available from CACMLE (order form provided by instructor)

*Additional texts that may be helpful:*

-Kern, M.E., Blevins, K.S., Medical Mycology: A Self Instructional Text 2<sup>nd</sup> Ed., Philadelphia, F.A. Davis Company, 2002.

-Leventhal, R., Cheadle, R.F., Medical Parasitology: A Self Instructional Text, 6th. Ed., Philadelphia, F.A. Davis Company, 2012.

**Grading:**

Exams (4) 25% each x 4 = 100% total

All exams are multiple choice of the type used on the professional certification exams. Exams cover all material presented on CDs and the textbook. Exams may have visuals included in the questions. All exams will be administered via Canvas. The date and time of exams can be found in the course schedule.

**Exams:** Exams are multiple choice and are the type used on the professional certification exam and are completed on Canvas. Date, time and location of exams can be found in the course schedule. Students are not allowed to open another window, tab, browser, or application (including copy and paste) and are not allowed to use another computer (including iPhone, iPad, etc.) while taking the exam. Please refer to the Academic Integrity, Cheating, and Plagiarism policy below.

**Canvas**

For this course we will be utilizing Canvas. As part of this group you will be able to use the discussion board, as well as access all documents for the course. The syllabus, learning modules, self-study questions, and laboratory case studies will all be accessible to you at any time via the class Canvas site.

**Mid-Term Evaluation:**

Students will be provided with a mid-term evaluation. Exams taken and assignments due before mid-term (mid-term date can be found on the UK Academic Calendar) will be used to determine mid-term progress.

**Grading Scale:**

A	90-100%
B	80-89%
C	70-79%
D	60- 69%
F	below 60%

## COURSE POLICIES

**Professional Preparation:** This program prepares students for entry into the clinical laboratory science profession. As such, instructors have a responsibility to assist students in learning about ethical and professional behavior. Professional behavior in this program includes: attending all classes, being prompt, notifying instructors of any absences, adhering to the highest standards of academic honesty, and conversing respectfully with faculty and fellow students.

**Attendance:** All students are expected to keep up with the course material. Due to the independent nature of the course, “getting behind” may constitute problems in successfully passing an exam. The instructor will be available by email to answer any questions you may have. You are expected to attend the review sessions prior to each exam and each exam session unless other arrangements with the instructor have been made. You are expected to contact the instructor PRIOR to the exam time if you are unable to take the exam as scheduled.

**Make-up opportunity:** When there is an excused absence a student will be given an opportunity to make up the missed exams. It is the student’s responsibility to inform the instructor of the absence, preferably in advance. Time and location of make-up exams will be determined by the instructor.

**Excused Absences:**

S.R. 5.2.4.2 defines the following as acceptable reasons for excused absences:

- a) serious illness;
- b) illness or death of family member;
- c) University-related trips;
- d) major religious holidays;
- e) Other circumstances you find to be "reasonable cause for nonattendance".

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day for adding a class. Information regarding dates of major religious holidays may be obtained through the religious liaison, Mr. Jake Karnes (859-257-2754).

**Verification of Absences:**

The instructor has the right to request appropriate verification of an excused absence. Students missing work due to an excused absence bear the responsibility of informing the instructor about their excused absence (except where prior notification is required) and of making up the missed work (see “Make-up Opportunity” policy above).

**Questions Concerning Grades:** All assignments and exams will be evaluated. Any assignment graded incorrectly or questions concerning the grading must be brought to the instructors' attention within one week of the grade being posted/returned. For more details see MLS Course Complaint Flow Chart in MLS Student Handbook.

**Electronic Device Policy:** Generally cell phone use is not permitted for any reason. All cell phones must be placed in the "off" or "silenced" position during class. If there is a situation where a student might need to be notified during a class period, please alert the instructor to this potential and carefully monitor your phone. Other electronic devices (except for computers and iPads) such as smartphones, i-Pods, MP3 Players, and electronic game devices should be turned off.

**Academic Integrity, Cheating, and Plagiarism:** Each student in the class and program are expected to adhere to the highest standards of academic honesty. Cheating, plagiarism, and destruction of course materials violate the rules of the University. For more information on the University's policy on academic integrity please see Students Rights and Responsibilities, Part II, Section 6.3 (<http://www.uky.edu/StudentAffairs/Code/part2.html>) and <http://www.uky.edu/Ombud>. Violations of the university's rules regarding academic honesty can lead to a failing grade in the course and suspension, dismissal or expulsion from the University. Instances of academic dishonesty will be reported to appropriate University officials as required by University rules and procedures.

**Classroom Behavior:** Classroom behavior should be in compliance with the student code of conduct. Full details can be viewed at: <http://www.uky.edu/StudentAffairs/Code/part1.html>. Consistent with this policy, student behavior that detracts from the educational environment will not be tolerated. Examples of inappropriate behaviors include engaging in disrespectful or uncivil discussions, holding disruptive discussions, or sleeping. Disruptive students will be asked to leave the classroom and re-admittance is at the discretion of the instructor.

**Academic Accommodations:** If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 859-257-2754, email address [jkarnes@email.uky.edu](mailto:jkarnes@email.uky.edu)) for coordination of campus disability services available to students with disabilities. We can then collaborate on the best solution.

**Severe Weather:** It is the policy of the University of Kentucky to keep all offices open and classes meeting as scheduled except under extraordinary conditions.

If severe weather should result in changes to the university schedule, the university will follow specific procedures about when those decisions are made and how they will be announced. Details of those procedures are available at <http://www.uky.edu/PR/News/severeweather.htm>.

All faculty, staff and students should note that announcements regarding the cancellation of classes and closure of offices, or a delayed opening will normally be made by 6 a.m. through the local news media. The most up-to-date and complete information will be available from the UK



Infoline at 859-257-5684, UK TV Cable Channel 16, or the UK Web site at <http://www.uky.edu/>

### **MLS Program inclement weather policy for Center for Excellence in Rural Health:**

It is the policy of the University of Kentucky and the Center for Excellence in Rural Health (CERH) to keep all offices open and classes meeting as scheduled except under extraordinary weather conditions. **The MLS Program will follow the cancellation or delayed announcements of the CERH.** The announcements regarding the cancellation of classes (closure of facility) or a delayed opening are typically made by 6 a.m. The most up-to-date and complete information will be available from the Center phone line at (606)-439-3557, WYMT TV, Radio Stations 97.9 & 101.1, or the Center web site at <http://www.kyruralhealth.org/>. If classes are cancelled in Hazard, but not in Lexington, ITV lectures will be recorded and made available to CERH students. Missed laboratory sessions, due to inclement weather, will be rescheduled by Mr. Allen. This might possibly require having class on a Friday.

If classes are not cancelled or delayed and road conditions in your area make it dangerous for you to travel, the prudent thing to do would be to remain home and then get the information that you missed from a classmate. To check road conditions you may use the "511" system of the Kentucky State Police. Just dial those three numbers and the machine will prompt you through road conditions for your area.

## **DISTANCE LEARNING STUDENTS**

Distance Learning: Formal educational process in which the majority of instruction in a course occurs when students and instructors are not in the same place. For more information regarding Distance Learning Programs and for contact information: <http://www.uky.edu/DistanceLearning>

### Instructor Information:

Virtual Office Hours: TBD

Preferred method of contact: Email (email address given at top of syllabus)

Maximum timeframe for responding to student communications: 24 hours

### Technological Requirements:

- Access to a computer with Internet capabilities (DSL or Cable modems are highly recommended.)
- Distance learning programs – technical requirements: <http://www.uky.edu/DistanceLearning/current/technology/techReqs.html>

### Technology Support:

- Contact information for Information Technology Customer Service Center  
Website: <http://www.uky.edu/UKIT/Help/>  
Phone: 859-218-HELP
- Procedure for resolving technical complaints: Contact Help desk via telephone or website above first, then contact instructor.

### Distance Learning Library Services:

- Contact information for Distance Learning Library Services:

Website: <http://www.uky.edu/Libraries/DLLS>

DL Librarian: Carla Cantagallo

Email: [dllservice@email.uky.edu](mailto:dllservice@email.uky.edu)

Phone: 859 257-0500, ext. 2171; (800) 828-0439 (option #6)

DL Interlibrary Loan

Service: [http://www.uky.edu/Libraries/libpage.php?lweb\\_id=253&llib\\_id=16](http://www.uky.edu/Libraries/libpage.php?lweb_id=253&llib_id=16)

## **Mycology and Parasitology – Schedule for Spring 2017**

Mycology and Parasitology utilize Canvas modules and GermWare.

Meet on designated Thursdays from 3-4 pm for review of subject material and Tuesdays from 8:30-9:30 am for exams.

<b>DATE</b>	<b>SUBJECT</b>	<b>EXAMS</b>
Week 1, Jan. 11 - 20	Introduction to Clinical Parasitology Laboratory Identification Techniques	
Week 2, Jan. 23 - 27	Intestinal Protozoa	
Week 3, Jan. 30 – Feb. 3	Flagellates and Ciliates	
Week 4, Feb. 6 - 10	Intestinal Cestodes	
<b>Thursday, Feb. 9</b>	<b>Review for Exam 1</b>	
<b>Tuesday, Feb. 14</b>	<b>Exam 1</b>	Parasitology Exam 1 - Material from Weeks 1- 4
Week 5, Feb. 13 - 17	Intestinal Nematodes	
Week 6, Feb. 20 - 24	Intestinal Trematodes	
Week 7, Feb. 27 – Mar. 3	Blood and Tissue Parasites	
<b>Thursday, Mar. 2</b>	<b>Review for Exam 2</b>	
<b>Tuesday, March 7</b>	<b>Exam 2</b>	Parasitology Exam 2 - Material from Exam 1; primary emphasis on Weeks 5 - 7
Week 8, Mar. 6 - 10	Introduction to Clinical Mycology Laboratory Identification Techniques	
March 13 - 17	Spring Break!!	
Week 9, Mar. 20 - 24	Aspergillus/Zygomycetes	
Week 10, Mar. 27 – Mar. 31	Hyalohyphomycetes/Dermatophytes	
<b>Thursday, Mar. 23</b>	<b>Review for Exam 3</b>	
<b>Tuesday, April 4</b>	<b>Exam 3</b>	Mycology Exam 1 – Weeks 8 - 10
Week 11, April 3 - 7	Chromomycosis/Mycetoma/Phaeohyphomycetes	
Week 12, April 10 - 14	Dimorphic Fungi	
Week 13, April 17 - 21	Yeasts	
Week 14, April 24 – April 28	Completion of all materials	
<b>Thursday, April 27</b>	<b>Review for Exam 4</b>	
<b>May 1 – 5 TBA 9 – 11 am</b>	<b>Exam 4</b>	Mycology and material from Mycology Exam 1; primary emphasis on Weeks 11 -14.