COURSE CHANGE FORM

Complete 1a – 1f & 2a – 2c. Fill out the remainder of the form as applicable for items being changed.

1. General Information.

a. Submitted by the College of: College of Health Sciences | Today's Date: 9/20/10

b. Department/Division: Department of Clinical Sciences/Clinical Laboratory Sciences

c. Is there a change in "ownership" of the course? YES ☐ NO ☒

If YES, what college/department will offer the course instead? ____

d. What type of change is being proposed? ☒ Major ☐ Minor[1] (place cursor here for minor change definition)

e. Contact Person Name: Michelle Butina | Email: mbu228@uky.edu | Phone: 218-0852

f. Requested Effective Date: ☐ Semester Following Approval OR ☒ Specific Term[2]: Fall 2011

2. Designation and Description of Proposed Course.

a. **Current Prefix and Number:** CLS 835 | *Proposed Prefix & Number:* *MLS 420*

b. **Full Title:** Clinical Immunology | *Proposed Title:* *Clinical Immunology and Serology*

c. **Current Transcript Title** (if full title is more than 40 characters): ____

c. *Proposed Transcript Title (if full title is more than 40 characters):* ____

d. **Current Cross-listing:** ☒ N/A OR Currently[3] Cross-listed with (Prefix & Number): ____

Proposed – ☐ *ADD[3] Cross-listing (Prefix & Number):* ____

Proposed – ☐ *REMOVE[3, 4] Cross-listing (Prefix & Number):* ____

e. **Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours[5] for each meeting pattern type.**

Current:	3 Lecture	____ Laboratory[5]	____ Recitation	____ Discussion	____ Indep. Study
	____ Clinical	____ Colloquium	____ Practicum	____ Research	____ Residency
	____ Seminar	____ Studio	____ Other – Please explain:	____	
Proposed:	*2 Lecture*	*2 Laboratory*	*____ Recitation*	*____ Discussion*	*____ Indep. Study*
	____ Clinical	*____ Colloquium*	*____ Practicum*	*____ Research*	*____ Residency*
	____ Seminar	*____ Studio*	*____ Other – Please explain:*	*____*	

f. **Current Grading System:** ☒ Letter (A, B, C, etc.) ☐ Pass/Fail

Proposed Grading System: ☒ *Letter (A, B, C, etc.)* ☐ *Pass/Fail*

g. **Current number of credit hours:** 3 | *Proposed number of credit hours:* 3

h. **Currently, is this course repeatable for additional credit?** YES ☐ NO ☒

Comment [OSC1]: Excerpt from *SR 3.3.0.G.2* **Definition.** A request may be considered a minor change if it meets one of the following criteria:
a. change in number within the same hundred series*;
b. editorial change in the course title or description which does not imply change in content or emphasis;
c. a change in prerequisite(s) which does not imply change in content or emphasis, or which is made necessary by the elimination or significant alteration of the prerequisite(s); d. a cross-listing of a course under conditions set forth in *SR 3.3.0.E*;
e. correction of typographical errors.

*...for the specific purposes of the minor exception rule, the 600-799 courses are the same "hundred series," as long as the other minor change requirements are complied with. [RC 1/15/09]

[1] See comment description regarding minor course change. *Minor changes are sent directly from dean's office to Senate Council Chair.* If Chair deems the change as "not minor," the form will be sent to appropriate academic Council for normal processing and contact person is informed.
[2] Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.
[3] Signature of the chair of the cross-listing department is required on the Signature Routing Log.
[4] Removing a cross-listing does not drop the other course – it merely unlinks the two courses.
[5] Generally, undergrad courses are developed such that one semester hr of credit represents 1 hr of classroom meeting per wk for a semester, exclusive of any lab meeting. Lab meeting generally represents at least two hrs per wk for a semester for 1 credit hour. (See *SR 5.2.1.*)

COURSE CHANGE FORM

	Proposed to be repeatable for additional credit?	*YES* ☐	*NO* ☒
	If YES: *Maximum number of credit hours:* _____		
	If YES: *Will this course allow multiple registrations during the same semester?*	*YES* ☐	*NO* ☐
i.	**Current Course Description for Bulletin:**	An overview of immunology with a molecular basis for the immune response and the role of genetics in immunological disorders. Molecular biological techniques in the modern clinical laboratory will be emphasized.	
	Proposed Course Description for Bulletin:	*This course is designed to provide students with a comprehensive study of the immune system including principles of immunological and serological procedures, immunological disorders and diseases, and significance of laboratory methods used for diagnosis.*	
j.	**Current Prerequisites, if any:**	Admission into the Clinical Laboratory Sciences Profressional Program.	
	Proposed Prerequisites, if any:	*Admission into the Medical Laboratory Science Program or consent of instructor.*	
k.	Current Distance Learning(DL) Status: ☐ N/A	☐ Already approved for DL*	☒ *Please Add*[6] ☐ *Please Drop*
	*If already approved for DL, the Distance Learning Form must also be submitted unless the department affirms (by checking this box ☐) that the proposed changes do not affect DL delivery.		
l.	**Current Supplementary Teaching Component, if any:**	☐ Community-Based Experience	☐ Service Learning ☐ Both
	Proposed Supplementary Teaching Component:	☐ *Community-Based Experience*	☐ *Service Learning* ☐ *Both*
	Currently, is this course taught off campus?	YES ☐	NO ☒
	Proposed to be taught off campus?	YES ☒	NO ☐
4.	**Are significant changes in content/teaching objectives of the course being proposed?**	YES ☒	NO ☐
	If YES, explain and offer brief rationale:		
	Currently, CLS 835 is a lecture-only course. The program is proposing to add a student laboratory component to the course as Immunology and Serology are medical laboratory science discipline areas thus requiring proficiency in certain laboratory techniques. The proposed course will allow MLS students to develop basic laboratory skills necessary for working in Immunology and Serology departments.		
5.	**Course Relationship to Program(s).**		
a.	**Are there other depts and/or pgms that could be affected by the proposed change?**	YES ☐	NO ☒
	If YES, identify the depts. and/or pgms: _____		
b.	**Will modifying this course result in a new requirement[7] for ANY program?**	YES ☒	NO ☐
	If YES[7], list the program(s) here: *Medical Laboratory Science*		
6.	**Information to be Placed on Syllabus.**		
a.	☐ Check box if changed to 400G or 500.	If changed to 400G- or 500-level course you must send in a syllabus and *you must include the differentiation* between undergraduate and graduate students by: (i) requiring additional assignments by the graduate students; and/or (ii) establishing different grading criteria in the course for graduate students. (See *SR 3.1.4.*)	

[6] You must *also* submit the Distance Learning Form in order for the course to be considered for DL delivery.
[7] In order to change a program, a program change form must also be submitted.

COURSE CHANGE FORM

Signature Routing Log

General Information:

Course Prefix and Number: CLS 835 (Proposed MLS 420)

Proposal Contact Person Name: Michelle Butina Phone: 218-0852 Email: mbu228@uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
CLS Faculty	9/20/10	Dr. Michelle Butina / 218-0852 / mbu228@uky.edu	Michelle Butina
Clinical Sciences Department	9/20/10	Dr. Karen Skaff / 218-0585 / karenskaff@uky.edu	
CHS Associate Dean for Academic Affairs	10/26/10	Dr. Sharon Stewart / 218-0570 / srstew01@email.uky.edu	Sharon Stewart
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision[8]
Undergraduate Council	3/1/2011	Sharon Gill Digitally signed by Sharon Gill DN: cn=Sharon Gill, o=Undergraduate Education, ou=Undergraduate Council, email=sg@uky.edu, c=US Date: 2011.03.02 14:51:06 -05'00'	
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

[8] Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

University of Kentucky
College of Health Sciences
Department of Clinical Sciences
Clinical Laboratory Sciences

Course Number/Title/Section:	MLS 420 Clinical Immunology and Serology, Section 001
Course Credit:	3 credits (2 lecture contact hours; 2 laboratory contact hours)
Course Time /Place:	Lecture: CTW 403; Laboratory: CTW 425, Time: TBA
Course Faculty:	Michelle Butina, PhD, MLS(ASCP) 124D CTW Bldg. 900 S. Limestone Lexington, KY 40536-0200 Email (preferred for contacting instructor): Michelle.Butina@uky.edu Office phone: (859) 218-0852
Office Hours:	Immediately after class or by appointment

COURSE DESCRIPTION

Bulletin Description:
This course is designed to provide students with a comprehensive study of the immune system including principles of immunological and serological procedures, immunological disorders and diseases, and significance of laboratory methods used for diagnosis. Prereq: Admission into the Medical Laboratory Science Program or consent of instructor.

Student Learning Outcomes:
Upon completing this course, students will be able to demonstrate the following learning outcomes:

1. Demonstrate an understanding of the concepts of immunity.
2. Provide an overview of the function and role of the lymphoid system.
3. Describe the structure, function, and characteristics of immunoglobulins, complement and cytokines.
4. Describe the immunologic responses involved in preventing and combating infections.
5. Describe and differentiate the principles of immunological and serological testing.
6. Describe and differentiate infectious and autoimmune diseases.
7. Perform basic immunological and serological testing.
8. Evaluate validity of patient specimens, test results and quality assurance data related to immunological and serological testing.
9. Relate immunological and serological test results to the disease or condition associated with them

General Course Objectives:
The objective of this course is to impart to students:

1. Entry level knowledge and practical application skills in the areas of Immunology and

Serology.
2. The ability to interpret clinical results and correlate with common conditions and disease states.

Specific lecture objectives are provided for each topic presented/discussed in MLS 420.

Required Text:
Stevens, C (2009). Clinical Immunology and Serology: A Laboratory Perspective, 3rd ed., F. A. Davis (ISBN: 978-0-8036-1814-5)

Grading:

Exam I	15%
Exam II	15%
Exam III	15%
Final Exam (comprehensive)	30%
Assignments:	5%
Lab Reports:	5%
Lab Practical:	15%

Exams: Exams are multiple choice of the type used on the professional certification exam. Exams cover BOTH lecture and laboratory material. The Final Exam is comprehensive. The date, time and location of exams can be found in the course schedule.

Assignments: Include study questions for certain lecture topics. Study questions will be posted on Blackboard. All assignments are due on the assigned date (see course schedule below) by the beginning of the class session.

Lab reports allow for students to document their work and assess students knowledge on the topic covered that day. Reports are due at the end of the lab session.

Lab practical: MLS 420 has one laboratory practical which assesses the knowledge and skill the student gained during the student laboratory sessions. The practical will consist of a written component (various questions regarding laboratory procedures) and a "wet" component (perform certain immunology/serology laboratory tests). The date and time of the practical can be found in the course schedule.

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: Tardiness is defined as arriving 10 minutes after class begins or departure before the end of the class session. Three tardies constitute one unexcused absence. Attendance is mandatory. For the third and each subsequent unexcused absence, the final average will be lowered by 1 point (1%). You are expected to contact the instructor PRIOR to class if you are unable to attend.

Make-up opportunity: When there is an excused absence a student will be given an opportunity to make up the missed work and/or exams. It is the student's responsibility to inform the instructor of the absence, preferably in advance. Any missed scheduled assignment(s) will be due at the beginning of the class session on the day the student returns. 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).

Late work: Late work will not be accepted for a grade unless approved by instructor. If approved, points will be deducted for late work at the rate of 5 points per day. After one week, late work will not be accepted.

Submission of assignments: Assignments will be available on Blackboard. All assignments are to be accessed and submitted via Blackboard. All assignments are due on the assigned date (see course schedule below) by the beginning of the class session.

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. One week after grades have been posted/returned they become final and no corrections will be made.

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 i-Pads) 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). 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) 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/

DISTANCE LEARNING STUDENTS
(Center for Rural Health 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.

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.)
- System Requirements for Blackboard see http://wiki.uky.edu/blackboard/Wiki%20Pages/FAQS.aspx

Technology Support:

- Contact information for Teaching and Learning Services Center (TASC):
  Website: http://www.uky.edu/TASC/
  Phone: 859-257-8272
- Contact information for Information Technology Customer Service Center (ITSC):
  Website: http://www.uky.edu/UKIT/
  Phone: 859-218-HELP
- Procedure for resolving technical complaints: Contact TASC or ITSC 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
  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

COURSE SCHEDULE

Date	Lecture or Lab	Lecture Topic or Lab Procedure	Book Chapters	Study Questions
TBD	Lecture	Introduction to Immunology Innate and Acquired Immunity	Chapter 1 Chapter 2, 3	
TBD	*Lab*	*Antigen and Antibody testing*		
TBD	Lecture	Nature of Antigens	Chapter 4	
TBD	Lecture	Immunoglobulins and Cytokines	Chapters 5, 6	Antigens and Antibodies (Due: TBD)
TBD	*Lab*	*Direct Antiglobulin Test*		
TBD	Lecture	Complement System	Chapter 7	
TBD		**Exam 1 (Time: TBD, Location: TBD)**		
TBD	Lecture	Precipitation Reactions	Chapter 9	
TBD	*Lab*	*Various Strep Tests*		
TBD	Lecture	Agglutination	Chapter 10	
TBD	*Lab*	*Various Rheumatoid Factor Tests*		
TBD	Lecture	Labeled Immunoassays	Chapter 11	Review of Techniques (Due: TBD)
TBD	*Lab*	*hCG Testing*		
TBD	Lecture	Molecular Techniques	Chapter 12	
TBD	*Lab*	*RSV Testing*	*TBD*	
TBD		**Exam 2 (Time: TBD, Location: TBD)**		
TBD	Lecture	Hypersensitivity	Chapter 13	
TBD	*Lab*	*Cold Agglutinin Testing*		
TBD	Lecture	Autoimmune Diseases	Chapter 14	
TBD	*Lab*	*ANA Testing*		
TBD	Lecture	Spirochete Diseases Streptococcal Serology	Chapter 19 Chapter 20	
TBD	*Lab*	*RPR and VDRL Testing*		
TBD	Lecture	Viral Infections	Chapters 21, 22	Review of Diseases (Due: TBD)
TBD	*Lab*	*Mononucleosis Testing*		
TBD	*Lab*	*Rubella Testing*		
TBD		**Exam 3 (Time: TBD, Location: TBD)**		
TBD	Lecture	Transplants and Major Histocompatiblity Complex	Chapters 17, 4	
TBD	*Lab*	*Miscellaneous Testing and Open Lab*		
TBD	*Lab*	***Lab Practical (Time: TBD, Location: TBD)***		
TBD		**Final Exam (Time: TBD, Location: TBD)**		