

# Medical Laboratory Science

College of  
Health Sciences

**NOTE:** The B.H.S. with a major in Medical Laboratory Science as listed below has been provisionally approved; formal approval is expected in Fall 2011.

The undergraduate Medical Laboratory Science (MLS), formally Clinical Laboratory Sciences (CLS) program prepares medical laboratory scientists who perform laboratory tests that aid the diagnosis, prevention, prognosis, and treatment of disease. MLS graduates are employed in a variety of health care settings including hospital and private laboratories, clinics, pharmaceutical companies, research institutions, the armed forces, and public health centers. In addition to performing laboratory tests, MLS graduates can serve as consultants, managers, sales and technical representatives, and educators.

## Admission to the Professional Program

The MLS program has selective admissions and students are admitted to the professional program on a competitive basis. Applicants must have completed all UK Core requirements and preprofessional requirements prior to entering the program. Admission is based on cumulative grade-point average (GPA) for all courses taken at institutions of higher education (2.75 or higher on a 4.0 scale), cumulative GPA for preprofessional courses, and recommendation scores. Interviews may also be used in the admissions process. Applicants must submit an application and three recommendation forms.

The **application deadline** is March 1.

## The Curriculum

A total of 120 credits (including 60 professional program credits, preprofessional credits, and UK Core and graduation writing course credits) is required to receive the Bachelor of Health Sciences with a major in MLS degree.

## UK Core Requirements

See the *UK Core* section of the 2011-2012 *Undergraduate Bulletin* at: [www.uky.edu/Registrar/bulletinCurrent/ukc.pdf](http://www.uky.edu/Registrar/bulletinCurrent/ukc.pdf) for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

### I. Intellectual Inquiry in Arts and Creativity

Choose one course from approved list ..... 3

### II. Intellectual Inquiry in the Humanities

Choose one course from approved list ..... 3

### III. Intellectual Inquiry in the Social Sciences

PSY 100 Introduction to Psychology ..... 4

### IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences

CHE 105 General College Chemistry I ..... 3

CHE 111 Laboratory to Accompany General Chemistry I ..... 1

### V. Composition and Communication I

CIS/WRD 110 Composition and Communication I ..... 3

### VI. Composition and Communication II

CIS/WRD 111 Composition and Communication II ..... 3

### VII. Quantitative Foundations

MA 123 Elementary Calculus and Its Applications ..... 3

### VIII. Statistical Inferential Reasoning

Choose one course from approved list ..... 3

### IX. Community, Culture and Citizenship in the USA

Choose one course from approved list ..... 3

### X. Global Dynamics

Choose one course from approved list ..... 3

**General Education Hours** ..... **30-32**

## UK Graduation Requirement

Students should work closely with their advisor to fulfill the Graduation Writing Requirement.

## Preprofessional Course Requirements

CHE 107 General College Chemistry II ..... 3

CHE 113 Laboratory to Accompany General Chemistry II ..... 2

BIO 208 Principles of Microbiology ..... 3

BIO 209 Principles of Microbiology Laboratory ..... 2

PGY 206 Elementary Physiology ..... 3

BIO 148 Introductory Biology I

or

BIO 152 Principles of Biology II ..... 3

BIO 155 Laboratory for Introductory Biology I ..... 1

CHE 230 Organic Chemistry I ..... 3

CHE 231 Organic Chemistry Laboratory I ..... 2

STA 291 Statistical Methods ..... 3

**Subtotal: Premajor Course Hours** ..... **25**

## Professional Course Requirements

MLS 400 Laboratory Techniques and Phlebotomy ..... 2

MLS 410 Medical Laboratory Biochemistry ..... 3

MLS 420 Clinical Immunology and Serology ..... 3

MLS 430 Clinical Mycology, Parasitology, and Virology ..... 3

MLS 440 Molecular Techniques ..... 3

MLS 450 MLS Education and Management ..... 3

MLS 460 Clinical Hematology ..... 3

MLS 465 Clinical Hematology Laboratory ..... 2

MLS 461 Clinical Microbiology ..... 3

MLS 466 Clinical Microbiology Laboratory ..... 2

MLS 462 Clinical Chemistry ..... 3

MLS 467 Clinical Chemistry Laboratory ..... 2

MLS 463 Immunohematology ..... 3

MLS 468 Immunohematology Laboratory ..... 2

MLS 464 Body Fluids and Hemostasis ..... 2

MLS 469 Body Fluids and Hemostasis Laboratory ..... 2

MLS 470 Clinical Correlations ..... 3

MLS 480 Clinical Hematology Practicum ..... 4

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The University of Kentucky is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, masters, doctorate, and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of the University of Kentucky.

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MLS 481 Clinical Microbiology Practicum .....	4
MLS 482 Clinical Chemistry Practicum .....	4
MLS 483 Immunohematology Practicum .....	4
<b>Subtotal: Professional Course Hours .....</b>	<b>60</b>

In addition, students holding baccalaureate degrees in a health-related science may apply to the MLS program (fulfillment of preprofessional courses is required) and earn a second baccalaureate degree. Upon successful completion of the professional program, all students are eligible for the national certifying exam.

For additional information, refer to: <http://bit.ly/ukcls>.

Or contact:

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