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NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

Sponsoring Institution: Moberly Area Community College

Program Title: Medical Laboratory Technician

Degree/Certificate: AAS-Associate in Applied Science If other, please list: _____

Options: None

Delivery Site(s): East Central, Moberly Area, North Central, State Fair, and Three Rivers

CIP Classification: 51.1004

**CIP Code can be cross-referenced with programs offered in your region on MDHE's program inventory.
[Click here for link to NCES CIP site.](#)*

Implementation Date 08/18 (professional courses) please use MM/YY date format.

Is this a new off-site location? No Yes

If yes, is the new off-site location within your institution's current CBHE-approved service region? Yes

**If no, public institutions should consult the comprehensive review process.*

Is this a collaborative program? Yes No *If yes, please complete the collaborative programs form on page 6.*

CERTIFICATIONS:

- The program is within the institution's CBHE approved mission. *(public institutions only)*
- The program will be offered within the institution's CBHE approved service region. *(public institutions only)*
- The program builds upon existing programs and faculty expertise.
- The program does not unnecessarily duplicate an existing program in the geographically applicable area.
- The program can be launched with minimal expense and falls within the institution's current operating budget. *(public institutions only)*

AUTHORIZATION:

Jeffery C. Lashley, President

Jeffery C. Lashley, President
Digitally signed by Jeffrey C. Lashley, President
Date: 2017.08.28 10:30:14 -0500

August 28, 2017

Name/Title of Institutional Officer

Signature

Date

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Although the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below.

Qualifications of performance goals should be included wherever possible.

If you need more than one line of text to answer questions 1–5, please attach a Word .doc.

1. Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.

See attached Word doc. "Student Preparation."

- Characteristics of a specific population to be served, if applicable.

N/A

2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.

See attached Word doc. "Faculty Requirements."

- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.

100% of MLT credit hrs. will be assigned to FT faculty. Percent for gen ed. credit hrs. will vary across institutions.

- Expectations for professional activities, special student contact, teaching/learning innovation.

Requirement: 36 Continuing Education Units (CEU) in Medical Laboratory Science (MLS) every three years

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.

Projection: 30 student FTE majoring in the program by the end of five years

- Percent of full time and part time enrollment by the end of five years.

Projection: 100% full-time enrollment by the end of five years (Once admitted, full-time enrollment is required.)

STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
FULL TIME	20	23	25	27	30
PART TIME	0	0	0	0	0
TOTAL	20	23	25	27	30

4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.

Projections: 20 graduates at year three and 24 graduates at year five after implementation

- Special skills specific to the program.

Phlebotomy, clinical/technical skills, knowledge of laboratory procedures, and interpretation of lab results

- Proportion of students who will achieve licensing, certification, or registration.

100% of grads will get certified.

- Performance on national and/or local assessments, e.g. percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.

> 75% of students will score above 50th percentile on the Am. Society of Clinical Pathology (ASCP) exam.

- Placement rates in related fields, in other fields, unemployed.

> 90% of program graduates will get employed in a related field.

- Transfer rates, continuous study.

15-20% of graduates will transfer to a four-year institution for continued study.

5. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide a rationale

The Consortium received NAACLS accreditation on April 17, 2017.

6. Program Structure

A. Total credits required for graduation: 60 - 62 (See attached Word doc. "Academic Map MLT.")

B. Residency requirements, if any: N/A

C. General education: Total credits: 25-27

Courses (specific courses OR distribution area and credits)

Course Number	Credits	Course Title
Institution Specific	4	Human Anatomy w/ Lab
Institution Specific	4-5	Human Physiology w/ Lab
Institution Specific	3	English Composition I (or equivalent)
Institution Specific	3	US & State Constitution Requirement
Institution Specific	3	Math-Appropriate Pre-Requisite for General Chemistry I
Institution Specific	5	General Chemistry I (or equivalent)
Institution Specific	3-4	Directed Electives (e.g., humanities, social/behavioral science, orientation)

D. Major requirements: Total credits: 35 (See attached Word doc. "Course Descriptions.")

Course Number	Credits	Course Title
Institution Specific	2	Introduction to Lab Science Methods
Institution Specific	3	Immunology
Institution Specific	2	Phlebotomy
Institution Specific	5	Hematology and Coagulation
Institution Specific	2	Hematology and Coagulation Practicum
Institution Specific	4	Clinical Microbiology
Institution Specific	1	Parasitology, Mycology and Virology
Institution Specific	5	Immunohematology
Institution Specific	5	Clinical Chemistry and Urinalysis
Institution Specific	2	Clinical Microbiology Practicum
Institution Specific	2	Clinical Immunohematology Practicum
Institution Specific	2	Clinical Chemistry Practicum

E. Free elective credits: 0
(sum of C, D, and E should equal A)

F. Requirements for thesis, internship or other capstone experience: N/A

G. Any unique features such as interdepartmental cooperation: N/A

7. Need/Demand

Student demand

Market demand

Societal need

I hereby certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful.

On July 1, 2011, the Coordinating Board for Higher Education began provisionally approving all new programs with a subsequent review and consideration for full approval after five years.

COLLABORATIVE PROGRAMS

Sponsoring Institution One: Moberly Area Community College (See attached Word doc. "Collaborative Program")

Sponsoring Institution Two: Three Rivers College

Other Collaborative Institutions: East Central College, North Central Missouri College, State Fair Community College

Length of Agreement: Ongoing

Please note: If you need more than two lines of text to answer questions 1–5, please attach a word .doc.

1. Which institution (s) will have degree-granting authority?

All five cooperative partners in the Missouri Health Professions Consortium (MHPC) will have degree-granting authority. The MHPC partners include East Central, Moberly Area, North Central, State Fair, and Three Rivers.

2. Which institution (s) will have the authority for faculty hiring, course assignment, evaluation and reappointment decisions?

MACC will assume primary responsibility for the program. The Consortium will make decisions related to professional coursework. Each institution will have the authority to make its own decisions related to general education coursework.

3. What agreements exist to ensure that faculty from all participating institutions will be involved in decisions about the curriculum, admissions standards, exit requirements?

The Consortium submitted agreements addressing faculty participation in decisions about curriculum, admission standards, and exit requirements to National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

4. Which institution(s) will be responsible for academic and student-support services, e.g., registration, advising, library, academic assistance, financial aid, etc.?

Each member community college will be responsible for providing academic and student-support services at their "home" campus. The MHPC partners are listed above in question #1.

5. What agreements exist to ensure that the academic calendars of the participating institutions have been aligned as needed?

The alignment of academic calendars of the participating institutions was included in the agreements submitted to NAACLS.



The Missouri Health Professions Consortium
Providing quality health education for rural Missourians
 Medical Laboratory Technician (MLT) Program



Academic Map

Taken	Course Title	Credits
Pre-Professional Coursework		
	Human Anatomy (or HAPI)	4
	Human Physiology (or HAPII)	4-5
	English Composition I (or equivalent)	3
	US & State Constitution Requirement	3
	Directed Electives*	3-4
	Math**	3
	General Chemistry I (or equivalent)	5
		Total: 25-27
Fall: Professional Coursework Fall		
	Introduction to Lab Science Methods	2
	Immunology	3
	Phlebotomy	2
	Hematology and Coagulation	5
	Hematology and Coagulation Practicum	2
		Total: 14
Spring: Professional Coursework Spring		
	Clinical Microbiology	4
	Parasitology, Mycology and Virology	1
	Immunochemistry	5
	Clinical Chemistry and Urinalysis	5
		Total: 15
Summer: Professional Coursework Summer		
	Clinical Microbiology Practicum	2
	Clinical Immunochemistry Practicum	2
	Clinical Chemistry Practicum	2
		Total: 6

Total Credit Hours to Completion: 60-62

*College Orientation and Humanities and/or Social or Behavioral Sciences courses (Introduction to Ethics and/or Sociology) recommended.
 **Required pre-requisite course for General Chemistry I recommended
 General education classes may be completed at colleges other than the MHPC partner community colleges. Transfer credit is determined by each MHPC partner community college and students should not presume that all general education courses taken at another college will transfer as the equivalent to MHPC partner college coursework.

*****All information is subject to approval from the MDHE*****



The Missouri Health Professions Consortium

Explanation of the Collaborative Program

The Missouri Health Professions Consortium (MHPC) is a joint agreement among five Missouri Community Colleges to deliver health professions programs to students located in the rural regions of Missouri.

The Consortium's proposed Medical Laboratory Technician program is a one plus one degree program with the first year designed to complete general education and science pre-requisite requirements, and the second year required to complete the professional coursework.

Cooperative Partners in MHPC

1. East Central College - Union, MO
2. Moberly Area Community College – Moberly, MO
3. North Central Missouri College – Trenton, MO
4. State Fair Community College – Sedalia, MO
5. Three Rivers College – Poplar Bluff, MO

Moberly Area Community College (MACC) assumes primary responsibility for curriculum planning and selection of course content, in consultation with representatives of affiliating institutions. MACC and Three Rivers College already have accredited MLT programs, whereas the three other member community colleges do not currently offer an MLT program.

Professional coursework will be taught by full-time faculty at MACC and Three Rivers. The program will utilize distance education delivery for the didactic component, with live instruction being broadcast from a central location to each member college classroom. Students will have centralized labs at MACC and Three Rivers, as well as local clinical instruction with oversight provided by MACC's clinical coordinator. General education coursework will be taught by faculty at students' "home" campuses.

MACC's MLT Coordinator will serve as the Program Director. The Program Director will be responsible for the coordination of classroom teaching and supervised clinical experience in simulated as well as actual clinical facilities.



The Missouri Health Professions Consortium

Medical Laboratory Technician (MLT) Course Descriptions

Immunology (3) -- The course consists of the principles and theories of antigen and antibody reactions and the immune system as related to diagnostic serologic procedures.

Intro to Lab Sciences (2) -- This course orients the student to the concepts encompassed in the laboratory environment, to include safe specimen handling, testing procedures, reporting results, basic quality control, laboratory organization and professionalism.

Hematology and Coagulation (5) -- This course studies the cellular structures in blood, normal and abnormal cell development, alterations present in disease and the mechanisms of coagulation.

Parasitology, Mycology and Virology (1) -- This course introduces the student to parasites, fungus and viruses and their role in human health and disease.

Phlebotomy (2) -- This course covers various procedures in performing venipuncture and other specialized collection techniques in addition to laws and regulations for safe phlebotomy practices.

Microbiology (4) -- This course consists of the role of pathogenic bacteria and other microorganisms which will include bacterial culturing, differentiation and identification of human normal flora and disease-causing microorganisms.

Immunohematology (5) -- This course consists of concepts, applications and discrepancies of blood group testing, screening and crossmatch procedures and identifying unexpected antibodies.

Clinical Chemistry and Urinalysis (5) -- This course introduces the student to methods of analysis of chemical components found in the human body, the testing methodologies for those constituents and the results as applied to normal and abnormal disease states.

Hematology and Coagulation Practicum (2) -- Supervised clinical practice coordinated by the Consortium, in the hematology lab of selected clinical affiliates.

Clinical Chemistry Practicum (2) -- Supervised clinical practice coordinated by the Consortium, in the clinical chemistry lab of selected clinical affiliates.

Clinical Microbiology Practicum (2) -- Supervised clinical practice coordinated by the Consortium, in the microbiology lab of selected clinical affiliates.

Clinical Immunohematology Practicum (2) -- Supervised clinical practice coordinated by the Consortium, in the immunohematology lab of selected clinical affiliates.



The Missouri Health Professions Consortium

Faculty Requirements

Special Requirements for Assignment of Teaching for the Medical Laboratory Technician AAS Degree

NAACLS Requirements for Faculty and Staff

Program Director:

The program director must be a medical laboratory professional who:

- a. has an earned master's or doctoral degree;
- b. holds ASCP-BOC or ASCPi -BOC generalist certification as a Medical Laboratory Scientist/Medical Technologist.
- c. has three years of teaching experience;
- d. has knowledge of education methods and administration as well as current NAACLS accreditation procedures and certification procedures.

Didactic Instructor Appointments:

The program must have qualified faculty/instructors who hold appointments within the educational program.

The program must ensure and document ongoing professional development of the program faculty/instructors.

- a. Qualifications Faculty/instructors designated by the program must:
 - i. demonstrate adequate knowledge and proficiency in their content areas;
 - ii. demonstrate the ability to teach effectively at the appropriate level.



The Missouri Health Professions Consortium

Student Preparation

Special Admission Requirements for the Medical Laboratory Technician (MLT) Program

Pre-Requisite Requirements

Course Title	Credits
Human Anatomy w/Lab or Human Anatomy & Physiology I	4
Human Physiology w/Lab or Human Anatomy & Physiology II	4-5
English Composition I (or equivalent)	3
US & State Constitution Requirement	3
Directed Electives (e.g., humanities, social/behavioral science, college orientation)	3-4
Math-Appropriate Pre-Requisite for General Chemistry I	3
General Chemistry I (or equivalent)	5
TOTAL	25-27

GPA Requirement: Minimum core pre-requisite GPA of 2.5

TEAS Test Requirement: Minimum composite of 50th percentile

References: Must submit three references

Background Check: Must submit and pass a criminal background check

Drug Screen: Must submit and pass a drug screen