**PROGRAM CHANGES**

 WEBER STATE UNIVERSITY

**Submission Date:** 11/16/2012

**College**: Dumke College of Health Professions

**Department**: Medical Laboratory Sciences

**Program Title:** Medical Laboratory Sciences (AAS)

**PROGRAM DESCRIPTION:**

Medical laboratory scientists, sometimes referred to as medical technologists or medical laboratory technicians, are vital members of the health care team who play a central role in the detection, diagnosis and treatment of disease. To accomplish this, medical laboratory scientists must have a thorough understanding of a wide range of subjects including hematology, clinical chemistry, immunohematology (transfusion medicine), clinical microbiology, and immunology. Laboratory scientists appreciate investigative work and problem solving and are counted on to provide physicians with information critical to the successful diagnosis and treatment of patients. Medical laboratory scientists and technicians are employed by hospitals, clinics, research facilities, universities, and in lab-related commercial industry.

The MLS AAS and BS Programs can be completed either on campus or through online course offerings. To be eligible to take online MLS courses, students must be employed in a clinical laboratory in order to fulfill the laboratory requirements.

Students interested in the AAS MLS Program offered on campus, are first required to complete a set of support courses in chemistry, anatomy, physiology, and microbiology. In addition, the students will take two MLS introductory courses, one in laboratory practices and one in hematology. Once these are completed, which generally takes two to three semesters, the students are eligible to apply to the MLS AAS Program. If accepted, the students will take courses in clinical chemistry, clinical microbiology, and immunohematology. Each of these competency based courses and accompanying laboratory sections, are unique in that they are designed to simulate the medical laboratory setting and workflow without the need of an extended post graduate internship. Upon completion of these MLS courses, on-campus students will then spend two weeks in a medical laboratory facility. Graduates are then eligible to sit for the national ASCP Board of Certification examination as a Medical Laboratory Technician (MLT).

Students interested in the MLS AAS Program that is offered online, must be employed in a clinical laboratory. Students will receive the didactic (lecture) portion of each course online, while completing specific laboratory competencies in the clinical laboratory where they work, under the supervision of qualified clinical laboratory mentors. Please refer to the employer support information on the MLS Department web site: http://www.weber.edu/mls (online DEGREES/PROGRAMS). Applicants are first required to complete a set of support courses in chemistry, anatomy, physiology and microbiology. If accepted into the MLS AAS Program, students will then take courses in introductory laboratory practices, hematology, clinical chemistry, clinical microbiology, and immunohematology. Graduates are then eligible to take the national ASCP Board of Certification examination as a Medical Laboratory Technician (MLT).

Once students have completed the MLS AAS Program or are CLT/MLT certified, they become eligible to apply to the MLS BS Program. The degree can be completed either on-campus or online. Online applicants must be employed in a clinical laboratory as an MLT. If students complete their MLS AAS degree on campus at WSU, they must work as an MLT for three years prior to becoming eligible to apply for the online MLS programs. The curriculum includes advanced courses in laboratory practices, hematology, clinical chemistry, clinical microbiology and molecular diagnostics and immunohematology, along with a series of laboratory management and research courses. Several of the online MLS courses necessitate students working with a qualified medical laboratory mentor at their workplace to complete the laboratory requirements. Graduates are eligible to take the national ASCP Board of Certification examination as a Medical Laboratory Scientist (MLS).

Check all that apply:

\_\_\_\_ New course(s) required for major, minor, emphasis, or concentration.

\_\_√\_ Modified course(s) required for major, minor, emphasis, or concentration.

\_\_\_\_Credit hour change(s) required for major, minor, emphasis, or concentration.

\_\_√\_Credit hour change(s) for a course which is required for the major, minor, emphasis, or concentration.

\_\_\_ Attribute change(s) for any course.

\_\_\_\_Program name change.

\_\_\_\_Deletion of required course(s).

\_\_√\_Other changes (specify): Substantive changes to MLS 1113 course description

If multiple changes are being proposed, please provide a summary. Use strikeout (~~strikeout~~) when deleting items in the program and highlight (highlight) when adding items.

**Submit the original to the Faculty Senate Office, MC 1033,** and an **electronic copy to** kbrown4 @weber.edu

**JUSTIFICATION:** The course proposal changes for the AAS program reflect the need for an adjustment in the laboratory component for two courses. One course (MLS 1123) needs one less lab section and the new course number MLS 1114 will reflect that change, while MLS 2215 needs one more lab section. The new course number of MLS 2210 will reflect that change. The overall credit hours will remain the same.

**OLD:**

Major Course Requirements for AAS Degree

MLS Courses Required (33-34 credit hours)

MLS 1001 - Online Orientation for AAS Degree (1) Online students only

MLS 1113 - Introduction to Medical Laboratory Practices (4)

MLS 1123 - Principles of Hematology and Hemostasis (5)

MLS 2211 - Principles of Clinical Chemistry I (5)

MLS 2212 - Principles of Clinical Microbiology I (4)

MLS 2213 - Principles of Clinical Chemistry II (5)

MLS 2214 - Principles of Clinical Microbiology II (4)

MLS 2215 - Principles of Immunohematology (4)

MLS 2256 - Supervised Clinical Experience I (1)

MLS 2257 - Supervised Clinical Experience II (1)

Support Courses Required (24-31 credit hours)

CHEM 1110 PS - Elementary Chemistry (5)

or

CHEM 1210 PS - Principles of Chemistry I (5) and

CHEM 1220 - Principles of Chemistry II (5)

CHEM 1120 - Elementary Organic Bio-Chemistry (5) or

CHEM 2310 - Organic Chemistry I (4) and

CHEM 2315 - Organic Chemistry I Lab (1)

HTHS 1110 LS - Biomedical Core (4) \* and

HTHS 1111 - Biomedical Core (continued) (4) \*

MATH 1010 - Intermediate Algebra (4) or

MLS 2003 - Applied Laboratory Mathematics and Laboratory Statistics (3)

MICR 1113 LS - Introductory Microbiology (3) or

MICR 2054 LS - Principles of Microbiology (4)

**NEW:**

Major Course Requirements for AAS Degree

MLS Courses Required (33-34 credit hours)

MLS 1001 - Online Orientation for AAS Degree (1) Online students only

MLS 1113 - Introduction to Medical Laboratory Practices (4)

MLS 1114 - Principles of Hematology and Hemostasis (4)

MLS 2211 - Principles of Clinical Chemistry I (5)

MLS 2212 - Principles of Clinical Microbiology I (4)

MLS 2213 - Principles of Clinical Chemistry II (5)

MLS 2214 - Principles of Clinical Microbiology II (4)

MLS 2210 - Principles of Immunohematology (5)

MLS 2256 - Supervised Clinical Experience I (1)

MLS 2257 - Supervised Clinical Experience II (1)

Support Courses Required (24-31 credit hours)

CHEM 1110 PS - Elementary Chemistry (5) andCHEM 1120 - Elementary Organic Bio-Chemistry (5)

or

CHEM 1210 PS - Principles of Chemistry I (5) and

CHEM 1220 - Principles of Chemistry II (5)

or

HTHS 1110 LS - Biomedical Core (4) \* and

HTHS 1111 - Biomedical Core (continued) (4) \*

MATH 1010 - Intermediate Algebra (4) or

MLS 2003 - Applied Laboratory Mathematics and Laboratory Statistics (3)

MICR 1113 LS - Introductory Microbiology (3) or

MICR 2054 LS - Principles of Microbiology (4)

 **INFORMATION PAGE**

Attach a copy of the present program from the current catalog and a revised version (exactly as you wish it to appear in the catalog).

Did this program change receive unanimous approval within the Department? \_\_yes\_\_ If not, what are the major concerns raised by the opponents?

Explain any effects this program change will have on program requirements or enrollments in other departments including the Bachelor of Integrated Studies Program. In the case of similar offerings or affected programs, **you should include letters from the departments in question stating their support or opposition to the proposed program**. No other programs will be affected by these changes.

Indicate the number of credit hoursfor course work within the program. (Do not include credit hours for General Education, SI, Diversity, or other courses unless those courses fulfill requirements within the proposed program.) 33-34

Indicate the number of credit hours for course work within the current program. (Do not include credit hours for General Education, SI, Diversity, or other courses unless those courses fulfill requirements within the current program.) 33-34\_\_\_\_

 APPROVAL PAGE

for:

(Program Title)

Approval Sequence:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Department Chair/Date (& BIS Director if applicable)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

College Curriculum Committee/Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Program Director or ATE Director (if applicable)/Date

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Dean of College/Date

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| Courses required in programs leading to secondary undergraduate teacher certification must be approved by the University Council on Teacher Education before being submitted to the Curriculum Committee.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ University Council on Teacher Education/Date  |

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| Master’s program changes must be reviewed by the University Graduate Council before being submitted to the Curriculum Committee. I have read the proposal and discussed it with the program director.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_University Graduate Council Representative/Date |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

University Curriculum Committee/Date

Passed by Faculty Senate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date

Effective Date (As per PPM 4-2a) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_