PROGRAM TO PROGRAM ARTICULATION AGREEMENT

The Board of Reagents of the University of Wisconsin System
University of Wisconsin-Milwaukee (UWM) – College of Health Sciences (CHS)
and
Milwaukee Area Technical College (MATC)

MATC Associate Degree: A.A.S. Medical Laboratory Technician (MLT)
UWM Baccalaureate Degree: B.S. Medical Laboratory Science (MLS)

Effective Date: March 2014
Review Date: March 2017

Purpose: Milwaukee Area Technical College's two-year program prepares graduates to act as entry level Medical Laboratory Technicians. The University of Wisconsin-Milwaukee four-year program prepares graduates to act as entry level Medical Laboratory Scientists. The Medical Laboratory Scientist is qualified by academic and applied science education to provide service and research in clinical laboratory science and related areas in rapidly changing and dynamic healthcare delivery systems. Medical Laboratory Scientists perform, develop, evaluate, correlate and assure accuracy and validity of laboratory information; direct and supervise clinical laboratory resources and operations; and collaborate in the diagnosis and treatment of patients. The Medical Laboratory Scientist has diverse and multi-level functions in the principles, methodologies and performance of assays; problem-solving; troubleshooting techniques; interpretation and evaluation of clinical procedures and results; statistical approaches to data evaluation; principles and practices of quality assurance/quality improvement; and continuous assessment of laboratory services for all major areas practiced in the contemporary clinical laboratory. Medical Laboratory Scientists possess the skills necessary for financial, operations, marketing, and human resource management of the clinical laboratory. Medical Laboratory Scientists practice independently and collaboratively, being responsible for their own actions, as defined by the profession. They have the requisite knowledge and skills to educate laboratory professionals, other health care professionals, and others in laboratory practice as well as the public. The ability to relate to people, a capacity for calm and reasoned judgment and a demonstration of commitment to the patient are essential qualities. Communications skills extend to consultative interactions with members of the healthcare team, external relations, customer service and patient education.

Medical Laboratory Scientists demonstrate ethical and moral attitudes and principles that are necessary for gaining and maintaining the confidence of patients, professional associates, and the community.

This articulation agreement affords those students who earned an Associate Degree as a Medical Laboratory Technician at MATC the opportunity to enter the UWM Medical Laboratory Science Program with the credits specified below:

Program to Program Transfer Coursework:

Maximum Transferable Credits:

Maximum transferable credits are 72, excluding credits gained through examination.
College Parallel Courses: Total credits including college parallel courses may not exceed 72 credits.
General Studies Courses: 11 credits
Technical Studies Courses: 19 credits

College Parallel Courses:

Consult current UWM/MATC equivalency table.

Notes and Conditions:

1. This agreement applies only to students who have passed the ASCP-BOC MLT examination.
2. Students must meet all minimum UWM transfer admission requirements. See transfer.uwm.edu for details.
3. MATC students must have earned an Associate Degree within five (5) years of acceptance at UWM.
4. Bio Sci 202 will satisfy UWM's anatomy & physiology requirement; Bio Sci 203 will be waived.
5. The UWM course requirement for Bio Sci 383-General Microbiology will be waived.
6. The UWM baccalaureate candidate must also meet UWM's General Education and Cultural Diversity requirements.
7. If a student started undergraduate work during or after Fall 2013, he/she needs to complete the GER Part B requirements set forth by UWM. Quantitative Literacy is fulfilled by taking KIN 270, and Oral/Written Communication is completed by taking ENG 207. Please consult your advisor at UWM for more information.
8. Program to Program transfer courses/credits are accepted only for the degree specified in this agreement. A change of major invalidates these course/credits unless they are approved within some other Program to Program Articulation Agreement for a different major at UWM.
9. Course equivalencies specified in this articulation agreement are subject to change in the event that the course curricula of either institution undergo revision.

MATC Courses			**UWM Equivalent Courses**		
Course #	**Title**	**Credits**	**Course #**	**Title**	**Credits**
	General Studies				
NATSCI-177	Anatomy & Physiology	4	Bio Sci 202	Anatomy & Physiology	4 (GER-NS+)
NATSCI-197	Microbiology	4	Bio Sci 101	General Survey of Microbiology	4 (GER-NS+)
NATSCI-186	Intro. to Biochemistry	3		Chem. elective	3
	Technical Studies				
CLABT-110	Basic Lab Skills	1	BMS 101	Intro. to CLS	1
CLABT -111 CLABT -113	Phlebotomy QA/Lab Math	2 1	BMS 205	Intro. to Diag. Medicine	3
CLABT -114	Urinalysis	2	BMS 541	Urinalysis	1
CLABT-115	Basic Immunology	2	BMS 428	Immunology Lab	1
CLABT -120	Basic Hematology	3	BMS 420	Clinical Hematology	3
CLABT -130	Adv. Hematology	2	BMS 421	Clinical Hem. Lab	1
CLABT-121	Coagulation	1	BMS 522	Hemostasis	1
CLABT-131 CLABT-132	Clinical Chemistry I Clinical Chemistry II	3 2	BMS 432	Clinical Chemistry Lab	1
CLABT-133 CLABT-140	Clinical Microbiology Adv. Microbiology	4 2	BMS 535	Medical Micro. Lab	2
CLABT-151 CLABT-152	Clinical Experience I Clinical Experience II	3 4	BMS 548	Clinical Lab Practicum	5

Challenge Exams:

It is recognized that certain students may have acquired course competencies through job training or other prior learning. Challenge exams provide program faculty a means to assess and document such learning. A total of 14 credits may be granted through examination for the UWM courses listed below:

Course #	**Title**	**Credits**
BMS 427	Clinical Immunology	3
BMS 431	Clinical Chemistry	3
BMS 530	Blood Bank	3

BMS 534	Medical Microbiology	3
BMS 537	Medical Parasitology & Mycology	2

Curriculum

The UWM Bachelor of Science in Medical Laboratory Science includes the following coursework. Courses in bold are those included in the direct course equivalencies listed above. Credit may be earned for courses in italics through a Challenge Exam.

FRESHMAN YEAR

CHEM 102 General Chemistry	5	CHEM 104 General Chemistry & Qualitative Analysis	5
BIO SCI 202 Anatomy & Physiology I	**4**	BIO SCI 203 Anatomy & Physiology II	4
BMS 101 Intro to Clinical. Lab Sciences	**2**	HS (HCA) 224 Intro. to Microcomputers	3
BMS 205 Intro to Diagnostic Medicine (Fall semester only)	**3**	GER Elective-Humanities	3
GER Elective-Arts	3		15
(BMS 101 & 205 highly recommended, not req'd)	17		

SOPHOMORE YEAR

BIO SCI 325 Genetics	3	CHEM 221 Quantitative Analysis	4
BMS 301, 302, 303 Human Pathophysiology	3	KIN 270 Statistics in Health	3
CHEM 341 Organic Lecture (Fall semester only)	3	BMS 304, 305 Human Pathophysiology	2
CHEM 342 Organic Lab (Fall semester only)	2	GER Electives-Social Science	6
Electives	4		15
	15		

JUNIOR YEAR

Minimum grade of C required in Bio 383, Chem 501, BMS 427 & 428

BIO SCI 383 General Microbiology	4	**BMS 420 Intro. Hematology**	**3**
CHEM 501 Biochemistry	3	**BMS 421 Intro. Hematology Lab**	**1**
BMS 427 Clinical Immunology	*3*	*BMS 431 Clinical Chemistry*	*3*
BMS 428 Clinical Immunology Lab	**1**	**BMS 432 Clinical Chemistry Lab**	**1**
GER Elective-Humanities	3	*BMS 534 Medical Microbiology*	*3*
In Fall, Jr. Yr., students apply to MLS professional study.	14		
		BMS 535 Medical Microbiology Lab	**2**
		BMS 560 Molecular and Genetic Diagnostics	2
Min. 2.500 UWM cum GPA required for major.		BMS 561 Molecular Diagnostics Lab	1
Min. 2.500 GPA required in sciences.			16

SENIOR YEAR

Summer

BMS 521 Applied Clinical Hematology	2
BMS 522 Hemostasis	**1**
BMS 536 Applied Clinical Microbiology	2
BMS 537 Med Parasitology/Mycology	*2*
BMS 541 Urinalysis	**1**
BMS 542 Applied Clinical Chemistry	2
	10

Fall Semester		**Spring Semester**	
BMS 523 Lectures in Adv. Hematology	1	BMS 524 Adv. Clinical Hematology Practicum	3
BMS 529 Intro. to Immunohematology	3	BMS 531 Adv. Lectures in CLS	1
BMS 530 Blood Bank Lab	*1*	BMS 532 Adv. Clinical Immunohematology	3
BMS 547 Clinical Lab Diagnosis	5	BMS 538 Adv. Clinical Microbiology Practicum	3
BMS 548 Clinical Lab Practicum	**5**	BMS 544 Adv. Clinical Chemistry Practicum	3
BMS 555 Toxicology & TDM	1	BMS 549 Professional Development	3
	16		16

TOTAL DEGREE CREDITS = 128

Note: For the GER electives listed above, select from Art, Humanities, or Social Science a course to satisfy GER-Cultural diversity; (e.g., Dance 122-African Dance, meets Arts & Cult. Diversity GER). For a complete list of GER courses, see the UWM Schedule of Classes.

Effective Date: **March 1, 2014**

Signatures:

THE BOARD OF REGENTS OF THE UNIVERSITY OF WISCONSIN SYSTEM

Date 11/13/14

Dr. Johannes Britz
Provost
University of Wisconsin – Milwaukee

Barbara A Cannell Date 12/1/14

~~Dr. Vicki Martin~~ Barbara Cannell
Provost, Interim
Milwaukee Area Technical College

Date 3/10/14

Dr. Chukuka Enwemeka
Dean, College of Health Sciences
University of Wisconsin – Milwaukee

Date 11/24/14

Dr. Dessie Levy
Dean, School of Health Sciences
Milwaukee Area Technical College

Date 3-6-14

Dr. Jeri-Anne Lyons
Chair, Department of Biomedical Sciences
College of Health Sciences
University of Wisconsin – Milwaukee

CHS: J/ BMS-Main/ Articulation Agreements/ MATC 2014