THE COMMUNITY COLLEGE OF BALTIMORE COUNTY

and

SALISBURY UNIVERSITY

ARTICULATION AGREEMENT

Associate of Applied Arts Degree
Medical Laboratory Technology

Bachelor of Science Degree
Medical Laboratory Science

2014 through 2018

ASSOCIATE-BACCALAUREATE PROGRAM ARTICULATION AGREEMENT

between

The Community College of Baltimore County

and

Salisbury University

Medical Laboratory Technology/ Medical Laboratory Science

AGREEMENT

WHEREAS The Community College of Baltimore County and Salisbury University are committed to expanding education opportunities, and

WHEREAS the two institutions are committed to providing a smooth transition for students wishing to earn an associate degree and a baccalaureate degree, and

WHEREAS the intent of the two institutions is to avoid duplication of curricula where appropriate within articulated programs for students, and

WHEREAS the two institutions better serve the educational growth of students and the economic development of the community through cooperative educational planning and optimal utilization of community resources,

BE IT HEREWITH RESOLVED that this agreement commit the partners to full support of an articulation process between similar academic programs offered by the two institutions.

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PROVISIONS OF THE AGREEMENT

1. This program articulation agreement applies to The Community College of Baltimore County's (CCBC) Associate of Applied Science Degree program in Medical Laboratory Technology and Salisbury University's (SU) Bachelors of Science Degree program in Medical Laboratory Science.

2. The institutions agree to follow the joint program curriculum and course by course articulation delineated in this document.

3. Both educational institutions will cooperate toward developing, disseminating, and presenting the articulated program information to students.

4. Students graduating with an Associate Degree in Medical Laboratory Technology will be granted automatic admission to the Baccalaureate program in Medical Laboratory Science provided: (1) they are admitted to the University, (2) they have an overall GPA of 3.0, (3) they applied for admission to the SU Baccalaureate program in Medical Laboratory Science upon completion of their last semester of their Associate Degree program in Medical Laboratory Technology, (4) they complete all pre-requisite courses outlined below prior to the first day of class and (5) they have passed the Medical Laboratory Technician examination given by the American Society of Clinical Pathology (ASCP). Students who have not yet passed the ASCP exam or have earned less than a 3.0 GPA will not receive automatic admission but will be considered in the normal admission process.

5. All articulated course credits must be earned with at least a C to be accepted for transfer to Salisbury University according to the program matrix.

6. Credit without registration (CWR) will be awarded for courses so indicated in APPENDIX IV and APPENDIX V of this agreement to students graduating with a Baccalaureate Degree in Medical Laboratory Science at the end of their final semester of study at SU.

7. Students are subject to all the policies and procedures of both institutions.

8. Students are subject to all specific policies pertaining to students admitted to the Medical Laboratory Science Baccalaureate Degree program.

9. This articulation agreement is based on the present curricula contained in this document and it is effective for a five-year period from 2014 to 2018. To be guaranteed automatic

admission as described in item 4, students must have applied by Fall 2019 and been admitted for the Fall 2020 semester.

10. Each institution will review this agreement annually. If either institution has modified its program, it will notify the other.

11. Any substantial change to either program will initiate a re-negotiation of this agreement.

APPROVAL

This program articulation agreement is between The Community College of Baltimore County's Associate of Applied Science Degree in Medical Laboratory Technology and the Salisbury University Bachelor of Science Degree in Medical Laboratory Science

Approval is granted for a five-year term from 2014 to 2018 according to the terms of this agreement by:

Mark McColloch — 11/12/14

Dr. Mark McColloch, Vice President of Instruction
The Community College of Baltimore County — Date

Diane E. Allen — 11-20-14

Dr. Diane Allen, Provost
Salisbury University — Date

APPENDIX I. Salisbury Connected Degree Form

Salisbury UNIVERSITY

MEDICAL LABORATORY SCIENCE 2014/2015

NAME: CCBC Connected Degree ID#: DATE: October 2014

GENERAL EDUCATION REQUIREMENTS

GROUP I – English and Literature - 2 COURSES)		
A.	ENGLISH 103 (Grade of "C" or better)	3 ENGL 101 (CCBC)
B.	LITERATURE (in either English or Modern Languages	4 SU
Group II – History (2 COURSES)		
A.	HISTORY 101, 102, or 103	4 SU
B.	HISTORY 101, 102, 103 OR a History course above 103	4 SU
GROUP III – Humanities and Social Sciences - 3 COURSES		
A.	**Select one course from one of the following six areas:** Art, Communication Dance OR Theatre, Modern Languages, Music, or Philosophy	3 CMNS 101 (CCBC)
B.	**Select one course from one of the following seven areas:** Anthropology, Conflict Analysis and Dispute Resolution OR Sociology, Economics, **Human** Geography, Interdisciplinary Studies, Political Science, or Psychology	3 SOCL 141 (CCBC)
C.	Select one course from either Group IIIA or IIIB **(course may not be from the same area selected for IIIA or IIIB)**	4 SU
GROUP IV – Natural Science, Math, and Computer Science - 4 COURSES		
A.	BIOL 215 Anatomy and Physiology I	4 SUB -BIOL109* (CCBC)
	CHEM 121 General Chemistry I	CHEM121/122*** (CCBC)
B.	CHEM 122 General Chemistry II	CHEM 123/124*** (CCBC)
C.	MATH 155 Modern Statistics:	MATH 153 (CCBC)
GROUP V – Health Fitness - 1 course		
PHEC 106 Personalized Health Fitness		3 SU
ELECTIVES		
CHEM100 and LLE		4 CHEM 107/108
COSC 116 Introduction to Computers		3 CSIT 101 (CCBC)
MDTC Elective		4 MLTC 231 (CCBC)
TOTAL Credits Transferred:		63

MEDICAL LABORATORY SCIENCE REQUIREMENTS

FRESHMAN YEAR			
BIOL	215	Anatomy and Physiology I	(see group IV A)
BIOL	216	Anatomy and Physiology II	4 SUB -BIO 110* (CCBC)
CHEM	121	General Chemistry	(see Group IVA)
CHEM	122	General Chemistry	(see Group IVB)
MDTC	101	Lab Safety (or BIOL 115)	1 CWR**
SOPHOMORE YEAR			
BIOL	211	Microbiology	4 BIOL 230 (CCBC)
MATH	155	Modern Statistics	(see group IVC)
JUNIOR YEAR			
MDTC	300	Principles of Clinical Laboratory Science	4 CWR**
MDTC	331	Diagnostic Immunology	4 SU
MDTC	301	Hematology I	4 SU
MDTC	311	Clinical Microbiology I	4 SU
SENIOR YEAR			
MDTC	401	Hematology II	3 SU
MDTC	411	Clinical Microbiology II	4 SU
MDTC	431	Introduction To Transfusion Services	3 SU
MDTC	441	Clinical Biochemistry II	4 SU
MDTC	402	Hematology III	3 CWR**
MDTC	403	Urine and Body Fluids Analysis	1 CWR**
MDTC	412	Clinical Microbiology III	3 CWR**
MDTC	413	Clinical Immunology	1 CWR**
MDTC	432	Clinical Transfusion Services	3 CWR**
MDTC	442	Automated Clinical Chemistry	2 CWR**
MDTC	443	Special Clinical Chemistry	3 SU
MDTC	461	Organization and Management	2 SU
MDTC	471	Clinical Seminar	1 SU
Total Credits Taken at SU:			57

STUDENTS ACCEPTED INTO THE PROGRAM ARE EXPECTED TO COMPLETE ALL DEPARTMENT COURSES WITH A GRADE OF C OR BETTER AND MINIMUM OF 30 HOURS AT THE 300/400 LEVELS WITH A GRADE OF C OR BETTER.

*** SU MLS Program will substitute BIOL 109/110 for BIOL 215/216**

**** Please note: Credit without registration (CWR) will be awarded for courses so indicated in APPENDIX IV of this agreement to students graduating with a Baccalaureate Degree in Medical Laboratory Science at the end of their final semester of study at SU. CWR refers to a block credit given for AAS MLT Graduates from CCBC towards fulfillment of the BS MLS Degree at SU.**

***** MATH 153 and CHEM 123/124 are not required for AAS graduation, but they must be completed for Admission to the SU MLS program. It is highly encouraged that students complete these in addition to their AAS credits prior to transfer to SU.**

APPENDIX II. Degree Sequence Worksheet

Salisbury UNIVERSITY

Connected Degree Curriculum
Suggested Course Sequence

ASSOCIATE DEGREE
Medical Laboratory Technology
THE COMMUNITY COLLEGE OF BALTIMORE COUNTY

FIRST SEMESTER (Spring)

BIOL 109 - Human Anatomy and Physiology	4
CHEM 107 - Fundamentals of Chemistry	3
CHEM 108 - Fundamentals of Chemistry Laboratory	1
ENGL 101 - College Composition I	3
CSIT 101 - Introduction to Computers	3

SECOND SEMESTER (Fall)

BIOL 110 - Biology I: Molecular and Cells	4
CHEM 121/122 - General Chemistry I /Lab	4
SOCL 141 - Racial and Cultural Minorities	3
CMNS 101 - Fundamentals of Communication	3

THIRD SEMESTER (Spring)

BIOL 230 – Microbiology	4
MLTC 101 - Intro Medical Laboratory Technology	3
MATH 135 - Applied Algebra and Trigonometry	3

FOURTH SEMESTER (Fall)

MLTC 150 - Principles of Immunology/Blood Banking	3
MLTC 151 - Immunology and Molecular Diagnostics	2
MLTC 200 - Clinical Chemistry	4

FIFTH SEMESTER (Spring)

MLTC 180 - Principles of Hematology & Coagulation	4
MLTC 231 - Clinical Microbiology	4

SIXTH SEMESTER (Summer)

MLTC 202 - Urinalysis and Body Fluids	2

SEVENTH SEMESTER (Fall)

MLTC 253 -Clinical Internship 1 – Hematology/Coagulation	2
MLTC 254 -Clinical Internship 2 Immunology/Blood Banking	2
MLTC 255 -Clinical Internship 3-Chem/Urinalysis/Body Fluids	2
MLTC 256 -Clinical Internship 4 Clinical Microbiology	2
MLTC 250 - Trends in Medical Lab Technology	1

Course sequencing may vary by semester. See your advisor.

BACHELOR DEGREE
Medical Laboratory Science
SALISBURY UNIVERSITY

EIGHTH SEMESTER (Spring)

MATH 153 at CCBC (Sub for MATH 155 at SU)	3
CHEM 123/124 at CCBC	4
OR	
CHEM 122 at SU in spring or summer	
MATH 155: Statistics at SU in spring or summer	

NINTH SEMESTER (FALL)

MDTC 331: Clinical Immunology	4
GENE IB Literature	4
HIST 101/102 or 103 World Civilization	4
GENE IIIC: Humanity or Social Science	4

TENTH SEMESTER (Spring)

MDTC 301 Hematology I	4
MDTC 311 Clinical Microbiology I	4
MDTC 341 Clinical Biochemistry I	5

ELEVENTH SEMESTER (Fall)

MDTC 401 Hematology II	4
MDTC 411 Clinical Microbiology II	4
MDTC 431 Intro to Transfusion Services	3
MDTC 441 Clinical Biochemistry II	4

TWELFTH SEMESTER (Winter)

MDTC 443 Special Clinical Chemistry	3

THIRTEENTH SEMESTER (Spring)

HIST 101/102 or 103 or other history above 103	4
PHEC 106 Personalized Health Fitness	3
MDTC 461 Laboratory Organization and Management	2
MDTC 471 Clinical Seminar	1
Elective course(s) to bring credits to 120	6

For more information contact:
Dr. Diane Davis, Salisbury University
Medical Laboratory Science Program
410-548-4787
dldavis@salisbury.edu

APPENDIX III. CCBC Articulation Course Map

The Community College of Baltimore County and Salisbury University
Medical Laboratory Technology/Medical Laboratory Science Curriculum Agreement

SU Credits Required:	Taken at SU:	Credits	CCBC Credits Transferred:	Credits	Notes
ENGL 103	English Composition		ENGL101	3	
ENGL Lit	Literature course	4			
HIST	World Civilization 101, 102 or 103	4			
HIST	HIST 101, 102 or 103 or HIST above 103	4			
IIIA	Humanity		CMNS 101	3	
IIIB	Behavioral or Social Science		SOCL 141	3	
IIIC	One course (Humanity or social science)	4			
CHEM 121 IVA	General Chemistry I		CHEM 121/122***	4	
CHEM 122 IVB	General Chemistry II		CHEM 123/124***	4	Not in CCBC MLT curriculum.
BIOL IVA	ANAT & PHYS I		BIO 110- program sub*	4	
BIOL	ANAT & PHYS II		BIO 109- program sub*	4	
BIOL 211	General Microbiology		BIO 230	4	
MATH 155 IVC	Statistics		MATH 153*	3	Not in CCBC MLT curriculum.
PHEC 106	Personalized Health Fitness	3			
MDTC 101	Laboratory Safety		CWR Block Transfer***	1	
MDTC 300	Principles of Medical Laboratory Science		CWR Block Transfer***	4	
MDTC 331	Immunology	4			
MDTC 301	Hematology I	4			
MDTC 311	Clinical Microbiology I	4			
MDTC 341	Clinical Biochemistry I	5			
MDTC 401	Hematology II	4			
MDTC 411	Clinical Microbiology II	4			
MDTC 431	Principles of Transfusion Services	3			
MDTC 441	Clinical Biochemistry II	4			
MDTC 402	Hematology III		CWR Block Transfer***	3	
MDTC 403	Urine and Body Fluid Analysis		CWR Block Transfer***	1	
MDTC 412	Clinical Microbiology III		CWR Block Transfer***	3	

MDTC 413	Clinical Immunology		CWR Block Transfer***	1	
MDTC 432	Clinical Prac. Transfusion Services		CWR Block Transfer***	3	
MDTC 442	Automated Clin. Chemistry		CWR Block Transfer***	2	
MDTC 443	Special Clin. Chemistry	3			
MDTC 461	Organization & Mgt	2			
MDTC 471	Clinical Seminar	1			
General Education Group IV B.	COSC 116		CSIT 101	3	
General Education Group IV A.	CHEM 100 and LLE		CHEM 107/108	4	
Elective	Elective credit		MLTC Electives??	6	Credit to get to 120 total
TOTAL CCBC CREDITS APPLIED TOWARD GRADUATION: *(if recommended courses are taken)*				63	
CREDITS BY DEPARTMENT EVAL. OF CCBC COURSEWORK				18 CWR	
CREDITS Taken at SU				57	
TOTAL CREDITS BY GRADUATION				120	

STUDENTS ACCEPTED INTO THE PROGRAM ARE EXPECTED TO COMPLETE ALL DEPARTMENT COURSES WITH A GRADE OF C OR BETTER AND MINIMUM OF 30 HOURS AT THE 300/400 LEVELS WITH A GRADE OF C OR BETTER.

*** SU MLS Program will substitute BIOL 109/110 for BIOL 215/216.**

**** Please note: Credit without registration (CWR) will be awarded for courses so indicated in APPENDIX IV of this agreement to students graduating with a Baccalaureate Degree in Medical Laboratory Science at the end of their final semester of study at SU. CWR refers to a block credit given for AAS MLT Graduates from CCBC towards fulfillment of the BS MLS Degree at SU.**

***** Selection of 2 Chemistry Courses (one is required) are not required for AAS Graduation, however, they must be completed for Admission to the SU MLS program. It is highly encouraged that students complete these in addition to their AAS credits prior to transfer to SU.**

APPENDIX IV. Fulfillment of SU General Education, Pre-Professional, and Major Courses by Transcript Explanation

Salisbury University Requirements for Completion of B.S. in Medical Lab Science -General Education- and -Pre-professional Requirements-	SH	**CCBC Fulfillment of SU Requirements Document via official transcript**	SH
English 103	4	ENGL 101	3 3
Literature	4	NOT FULFILLED- TO BE DONE AT SU	
History 101, 102 or 103	4		
History 101, 102 or 103 or history above 103	4		
Humanity Group IIIA	4	CMNS 101	3
Behavioral or Social Science Group IIIB	4	SOCL 141	3
Behavioral or Social Science Group IIIC	4	NOT FULFILLED- TO BE DONE AT SU	
MATH 155 - Modern Statistics	3	MATH 153***	3
CHEM 121	4	CHEM 121/122	4
CHEM 122	4	CHEM 123/124***	4
BIOL 215	4	BIOL 109*	5
BIOL 216	4	BIOL 110*	4
BIO 211	4	BIOL 230	4
PHEC 106	3	NOT FULFILLED- TO BE DONE AT SU	

*** SU MLS Program will substitute BIOL 109/110 for BIOL 215/216.**

**** Please note: Credit without registration (CWR) will be awarded for courses so indicated in APPENDIX IV of this agreement to students graduating with a Baccalaureate Degree in Medical Laboratory Science at the end of their final semester of study at SU. CWR refers to a block credit given for AAS MLT Graduates from CCBC towards fulfillment of the BS MLS Degree at SU.**

***** MATH 153 and CHEM 123/124 are not required for AAS graduation, but they must be completed for Admission to the SU MLS program. It is highly encouraged that students complete these in addition to their AAS credits prior to transfer to SU.**

Salisbury University Requirements for Completion of B.S. in Medical Laboratory Science -Major-	SH	**CCBC Fulfillment**	Documentation	Post Credit using Excel Form
MDTC 101 - Lab Safety*	1	Completion of A.A.S. Degree in Medical Laboratory Technology	Official Transcript from CCBC showing degree	1
MDTC 300 - Principles of Clinical Laboratory* Science	4	Completion of A.A.S. Degree in Medical Laboratory Technology (specific content for MDTC 300 is located throughout MLTC 101, 150, 151, 180, 200, 202, 231, and 250 23semester hours of courses that do not transfer to SU	Official Transcript from CCBC showing degree	4
MDTC 331 - Diagnostic Immunology	4	take at SU		
MDTC 301 - Hematology I	4	take at SU		
MDTC 311 - Clinical Microbiology I	4	take at SU		
MDTC 341 - Clinical Biochemistry I	5	take at SU		
MDTC 401 - Hematology II	3	take at SU		
MDTC 411 - Clinical Microbiology II	4	take at SU		
MDTC 431- Intro Transfusion Services	3	take at SU		
MDTC 441 - Clinical Biochemistry II	4	take at SU		
*NOTE: credits of the CCBC curriculum will not directly transfer into SU simply due to lack of similar course equivalency. The elementary level material provided in MDTC 101 - Lab Safety and MDTC 300 - Principles of Medical Laboratory Science are satisfied by content provided in the following CCBC courses: MLTC 101, 150, 151, 180, 200, 202, 231, and 250 and CSIT 101 Introduction to Computers and Applications (transfers as COSC 116)				

APPENDIX V. Fulfillment of Clinical Courses by CWR Block Transfer Credit using Post Credit Excel Form

Clinical Courses: Completion of A.A.S. Degree in Medical Laboratory Technology which includes MLTC 253, 254, 255, and 256, a full semester long clinical practicum. The design of CCBC clinical courses includes the same type of evaluation systems which include technical checklists, writing assignments, written examinations, and student professional behaviors evaluation.				Post Credit using Excel Form
MDTC 402 - Hematology III (Clinical - 3 weeks)	3	The hematology portion of the practicum is three weeks long and includes competencies required in MDTC 402	Official Transcript from CCBC showing degree **Designated on Articulation Agreement* by CWR	3
MDTC 403 - Urine and Body Fluid Analysis (Clinical - 1 week)	1	The urine and body fluids portion of the practicum is one week long and includes competencies required in MDTC 403		1
MDTC 412 - Clinical Microbiology III (Clinical - 3 weeks)	3	The microbiology portion of the practicum is three weeks long and includes competencies required in MDTC 412		3
MDTC 413 - Clinical Immunology (Clinical - 1 week)	1	The immunology portion of the practicum is one week long and includes competencies required in MDTC 413		3
MDTC 432 - Clinical Transfusion Services (Clinical - 3 weeks)	3	The blood bank portion of the practicum is three weeks long and includes competencies required in MDTC 432		3
MDTC 442 - Automated Clinical Chemistry (Clinical - 2 weeks)	2	The Clinical Chemistry portion of the practicum is three weeks long and includes competencies required in MDTC 442		2
MDTC 443 - Special Clinical Chemistry (Clinical - 3 weeks)	3	take at SU		
MDTC 461 - Lab Organization/Mgmt	2	take at SU		
MDTC 471 - Clinical Seminar	1	take at SU		

Evaluated and approved

Diane Davis Ph.D. — 17 NOV 2014

Diane Davis, Ph.D., Program Director Salisbury University MLS Program — Date