

**CECIL COLLEGE
And
UNIVERSITY OF DELAWARE**

PROGRAM ARTICULATION AGREEMENT

**Associate Degree
A.S. Biological Sciences, Biomedical Science Concentration**

**Baccalaureate Degree
B.S./Medical Laboratory Science**

2023 through 2027

Associate-Baccalaureate Program Articulation Agreement

between

Cecil College

and

University of Delaware

for

**A.S. Biological Sciences, Biomedical Science Concentration/
B.S. Medical Laboratory Science**

AGREEMENT

WHEREAS Cecil College (CC) and University of Delaware (UD) are committed to expanding educational opportunities for the citizens of the State of Delaware, 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 of studies, 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 commits the partners to full support of an articulation process between similar academic programs offered by the two institutions.

PROVISIONS OF THE AGREEMENT

1. The institutions agree to follow the connected degree curriculums delineated in this document for the transfer of Cecil College's Associate Degree Program in Biological Sciences/Biomedical Science Concentration and the University of Delaware's (UD) Bachelor of Science/Medical Laboratory Science Degree Program (MLS).
2. Both institutions will cooperate toward developing, disseminating, and presenting the articulated program information to students.
3. Graduates of the CC program who have completed the associate degree with a cumulative grade point average of 2.50 or higher will automatically be accepted into the baccalaureate program at UD. Students will be considered for admission based on the completed work at the time of the review. CC will provide confirmation of degree completion upon students' final semester of coursework. Students who do not complete the degree program as outlined in the agreement may have admission based on the articulation agreement criteria rescinded, however still may be considered for regular transfer admission based on the totality of their academic record. UD reserves the right to recalculate the CC cumulative grade point average to account for CC's grade forgiveness policy when making admission decisions.
4. Students must complete the courses in the specified associate degree program herein with a grade of C or better to receive the credits for transfer. Students are expected to complete all courses outlined in the CC portion of the agreement at CC. Students who have attended a college or university other than CC and transferred credits to CC in pursuit of the associate degree program may not be admissible via the provisions of this articulation agreement. In such cases, students will be considered based on their entire academic history and not guaranteed admission to the bachelor's degree program or the course equivalencies detailed within the provisions of this agreement. Coursework taken at an institution other than CC may not transfer to UD as noted in the agreement. It is expected that students will complete all coursework in the UD portion of the agreement at UD. Students who previously attended UD are not eligible for admission via an articulation agreement and instead should apply for readmission consideration if wishing to re-enroll at UD.
5. Students intending to transfer should complete the UD admissions application following the third semester of their associate degree program. Students should note on their application that they are applying as part of an articulation agreement/connected degree.
6. Students are subject to all the policies and procedures of both institutions.

7. Students are subject to all specific policies pertaining to students admitted to the Medical Laboratory Science Bachelor's Degree Program.
8. This articulation agreement is based on the present curricula contained in this document and it is effective for a period of five years from the date of signing by both parties.
9. Both institutions at any time may initiate changes to this articulation agreement. Both institutions reserve the right to modify the programs as deemed necessary and agree to inform the appropriate individuals of said changes. Departments will review agreements and notify the appropriate individuals at each institution of any changes by July 1 of each year the agreement is in effect. The University of Delaware will make a good faith effort to honor this articulation agreement for any Cecil College student who enrolls in the Biological Sciences, Biomedical Science Concentration Associate Degree program during the five year period specified for this agreement, and graduates with the required associate degree within eight (8) years of the signing of this agreement by both parties. A student who meets these conditions must apply to the University of Delaware and be accepted in order to receive the benefits of this agreement.

DEGREE ANALYSIS

Matching Worksheet/Suggested Course Sequence/Bachelor's Completion

ASSOCIATE DEGREE PROGRAM A.S. CECIL COLLEGE BIOLOGICAL SCIENCES/BIOMEDICAL SCIENCES CONCENTRATION		BACHELOR'S DEGREE COURSE MATCH		BACHELOR'S DEGREE COMPLETION B.S. MEDICAL LABORATORY SCIENCE UNIVERSITY OF DELAWARE	
Course No./Name First Semester (fall)	CR	Course No./Name	CR	Course No./Name Fifth Semester (fall)	CR
EGL101 College Composition	3	ENGL166DE: Department Elective Note: Students who successfully complete and transfer credit for EGL101 and earn an associate degree from Cecil College will be granted an exemption for ENGL110 First Year Writing. This exemption will be posted to the student record upon receipt of a final, official transcript. Note: grades of C- or better are required to transfer credit to UD.	3	MMSC200 Language of Medicine	3
BIO130/BIO131 Principles of Biology I Lecture/Lab	3/1	BISC207 Intro Biology I	4	MMSC250 Commun, Educ & Ethics in Healthcare	1
CHM103/CHM113 General Chemistry I Lecture/Lab	3/1	CHEM103/133 Gen Chem I Lecture/Lab	3/1	MMSC415/416 Clin Immunology & Medical Virology /Lab	3/1
SOC SCI Social Science Elective (Options; PSY101, SOC101 or POS201)	3	PSYC100 General Psych, SOC1201 Intro Soc OR POSC150 Intro Amer Politics (SBS breadth)	3	MMSC370 Phlebotomy & Specimen Processing	1
ARTS/HUM Arts & Humanities Elective (choose one equivalent to UD's CAH breadth list)	3	Creative Arts & Humanities Breadth	3	MMSC375 Stats & Rsrch Meth for Med Lab Scientists	2
				MMSC402/412 Body Fluid Analysis Lecture/Lab	2/1
				MMSC491 Human Molecular Genetics	3
	15		14		17
EGL102 Composition & Literature	3	ENGL101 Tools of Textual Analysis (UD CAH Breadth)	3	MMSC493 Cellular & Molecular Diagnostic Tech	2
BIO132/BIO133 Principles of Biology II lecture/lab	3/1	BISC208 Intro Biology II	4	MMSC407/417 Clin Physiological Chem I/Lab	3/1
CHM104/CHM114 General Chemistry II lecture/lab	3/1	CHEM104/134 Gen Chem II lecture/lab	3/1	MMSC408/419 Immunohematology I/Lab	2/1
MAT - Elective (MAT191 or higher; MAT191 = UD's MATH117 Precalc for Scientists & Engineers; 201, 202 & 203 also will satisfy ML's math requirement)	4	MATH117 Precalculus for Scientists & Engineers; MATH241, 242 & 243, respectively)	4	MMSC423/424 Hematology I/Lab	2/1
				MMSC428/429 Medical Microbiology & Parasitology/Lab	3/2
Subtotal	12		31		34

ASSOCIATE DEGREE PROGRAM A.S. CECIL COLLEGE BIOLOGICAL SCIENCES/BIO MEDICAL SCIENCES CONCENTRATION		BACHELOR'S DEGREE COURSE MATCH		BACHELOR'S DEGREE COMPLETION B.S. MEDICAL LABORATORY SCIENCE UNIVERSITY OF DELAWARE	
Course No./Name Third Semester (fall)	CR	Course No./Name	CR	Course No./Name Seventh Semester (fall)	CR
SPH121 Interpersonal Communication OR SPH141 Public Speaking	3	COMM166DE Dept Elective OR COMM350 Public Speaking, respectively	3	MMSC416 Senior Seminar	0
SOC SCI Social Science Elective (Options: PSY101, SOC101 or POS201)	3	PSYC100 General Psych, SOC1201 Intro Soc OR POSC150 Intro Amer Politics (SBS breadth)	3	MMSC420/421 Immunohematology II/Lab	2/1
Concentration Requirement (BIO208/218 Human Anatomy & Physiology I lecture/lab)	3/1	KAAP309 Human Anatomy & Physiology I (KAAP309 & 310 sub for BISC306 in MLS)	4	MMSC433/434 Hematology II/Lab	2/2
Concentration Requirement (CHM203 Organic Chemistry I with lab)	4	CHEM321/325 Organic Chemistry I lecture/lab	3/1	MMSC436 Clinical Physiological Chemistry	3
				MMSC437 Clinical Laboratory Instrumentation	2
				MMSC438/439 Diag Bacteriology & Med Mycol/lab	3/2
				MMSC461 Laboratory Practice & Leadership I	1
	15		15		10
Concentration Requirement (BIO209/219 Human Anatomy & Physiology II lecture/lab)	3/1	KAAP310 Human Anatomy & Physiology II (KAAP309 & 310 sub for BISC306 in MLS-BS)	4	MMSC472 Clinical Urinalysis Practicum (Winter)	1
Concentration Requirement (CHM204 Organic Chemistry II with lab)	4	CHEM322/326 Organic Chemistry II lecture/lab	3/1	MMSC471 Laboratory Practice & Leadership II	1
Concentration Requirement (BIO200 Microbiology & BIO210 Microbio Lab to = UD BISC 300)	3/1	BISC300 Intro to Microbiology	4	MMSC473 Clinical Chemistry Practicum	3
ARTS/HUM Arts & Humanities Elective (choose from HIS110 or 111 (equivalent to UD's HCC breadth courses))	3	HIST103 or 104 World History 1400/since 1400 (satisfies HCC breadth and Multicultural Requirement)	3	MMSC475 Clinical Hematology Practicum	3
				MMSC477 Clinical Microbiology Practicum	3
				MMSC479 Clinical Immunohematology Practicum	3
				MMSC480 Senior Seminar II	1
				Second Writing	3
Subtotal	29		29		36
TOTAL	61		61	GRAND TOTAL: 37 + 29 + 34 + 36 = 129	131



CONNECTED DEGREE CURRICULUM

Suggested Course Sequence

ASSOCIATE DEGREE PROGRAM A.S. CECIL COLLEGE BIOLOGICAL SCIENCES/BIOMEDICAL SCIENCES CONCENTRATION				BACHELOR'S DEGREE COMPLETION B.S. MEDICAL LABORATORY SCIENCE UNIVERSITY OF DELAWARE			
Semester 1 (Fall)			CR 17	Semester 5 (Fall)			CR 17
EGL	101	College Composition	3	MMSC	200	Language of Medicine	3
BIO	130/131	Principles of Biology I lecture/lab	3/1	MMSC	250	Comm, Edu & Ethics in Healthcare	1
CHM	103/113	General Chemistry I lecture/lab	3/1	MMSC	415/416	Clinical Immunology & Medical Virology/lab	3/1
XXX	XXX	Social Science Elective (from list below)	3	MMSC	370	Phlebotomy & Specimen Processing	1
XXX	XXX	Arts & Humanities Elective (from list below)	3	MMSC	375	Stats & Rsrch Methods for Med Lab Scientists	2
				MMSC	402/412	Body Fluid Analysis/lab	2/1
				MMSC	491	Human Molecular Genetics	3
Semester 2 (Spring)			15	Semester 6 (Spring)			17
EGL	102	Composition & Literature	3	MMSC	493	Cellular & Molecular Diagnostic Techniques	2
BIO	132/133	Principles of Biology II lecture/lab	3/1	MMSC	407/417	Clinical Physiological Chemistry I/lab	3/1
CHM	104/114	General Chemistry II lecture/lab	3/1	MMSC	409/419	Immunohematology I/lab	2/1
MAT	XXX	Elective (MAT191 or higher)	4	MMSC	423/424	Hematology I/lab	2/1
				MMSC	428/429	Medical Microbiology & Parasitology/Lab	3/2
Semester 3 (Fall)			14	Semester 7 (Fall)			18
SPH	121 or 141	Interpersonal Communication or Public Speaking	3	MMSC	418	Senior Seminar	0
XXX	XXX	Social Science Elective (from list below)	3	MMSC	420/421	Immunohematology II/lab	2/1
BIO	208/218	Human Anatomy & Physiology I lecture/lab (Concentration Requirement)	3/1	MMSC	433/434	Hematology II/lab	2/2
CHM	203	Organic Chemistry I with lab (Concentration Requirement)	4	MMSC	436	Clinical Physiological Chemistry	3
				MMSC	437	Clinical Laboratory Instrumentation	2
				MMSC	438/439	Diagnostic Bacteriology & Medical Mycology/lab	3/2
				MMSC	461	Laboratory Practice & Leadership I	1
Semester 4 (Spring)			14	Winter (I) Semester 8 (I) Spring			18
BIO	208/219	Human Anatomy & Physiology II lecture/lab (Concentration Requirement)	3/1	MMSC	472	Clinical Urinalysis Practicum (Winter)	1
CHM	204	Organic Chemistry II with lab (Concentration Requirement)	3/1	MMSC	471	Laboratory Practice & Leadership II	1
BIO	200/210	Microbiology/lab (Concentration Requirement)	3/1	MMSC	473	Clinical Chemistry Practicum	3
XXX	XXX	Arts & Humanities Elective (HIS110 or 111)	3	MMSC	475	Clinical Hematology Practicum	3
				MMSC	477	Clinical Microbiology Practicum	3
				MMSC	479	Clinical Immunohematology Practicum	3
				MMSC	480	Senior Seminar II	1
				XXX	XXX	Second Writing	3
			61				70
Total Credits							131

- The Bachelor of Science program in Medical Laboratory Science requires a minimum of 122 credits.
- Course sequencing may vary by semester. See your advisor.
- MMSC100 is waived from the MLS curriculum for students of the articulation agreement.
- Choose from Cecil Social Science electives: POS201, PSY101 or SOC101
- Choose from Cecil Arts & Humanities electives: ART101, ART130, ART140, ART180; EGL102; MUC122; PHI101, PHI201, PHI205

For more information contact:

Cecil College
Christine Warwick, MS
Chair of Science & Technology Dept.

University of Delaware
Esther Biswas-Fiss, PhD
Chair, Medical & Molecular Sciences Department

The articulation agreement is subject to change based on Cecil College and senior institution curriculum changes 10/2022


APPROVAL

This program articulation agreement is between Cecil College's Associate of Science Degree in Biology/Biomedical Sciences Concentration and UD's Bachelor of Science Medical Laboratory Science.

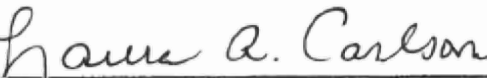
Approval is granted for a period of five years effective on the date both parties have signed this agreement.

CECIL COLLEGE

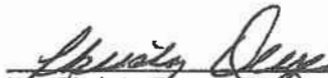
UNIVERSITY OF DELAWARE


Dr. Mary Way Bolt, EdD
President
Cecil College


9/13/2023
Date


Laura A. Carlson, PhD
Provost
University of Delaware


10/20/2023
Date


Dr. Christy Dryer, DMP
Vice President for Academic Programs


9/13/2023
Date


William Farquhar, PhD
Dean
College of Health Sciences

9/21/23
Date


Christine Warwick, MS
Chair
Science & Technology Department

9/13/23
Date


Esther E. Biswas-Fiss, PhD
Chair
Medical and Molecular Sciences Department

9/13/2023
Date