CECIL COLLEGE And UNIVERSITY OF DELAWARE

PROGRAM ARTICULATION AGREEMENT

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

Baccalaureate Degree
B.S./Applied Molecular Biology & Biotechnology

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. Applied Molecular Biology and Biotechnology

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/Blomedical Science Concentration and the University of Delaware's (UD) Bachelor of Science/Applied Molecular Biology and Biotechnology Degree Program (AMBB).
- 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the degree program as outlined in the agreement may have admission based on the articulation agreement criteria rescinded, however still may be considered for regular transfer admission based on the totality of their academic record.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 compete 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 Applied Molecular Biology and Biotechnology 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		BACHELOR'S DEGREE COURSE MATCH		BACHELOR'S DEGREE COMPLETION	
CECIL COLLEGE BIOLOGICAL SCIENCES/BIOMEDICAL SCIENCES CONCENTRATION	CAL			B.S. APPLIED MOLECULAR BIOLOGY & BIOTECHNOLOGY UNIVERSITY OF DELAWARE	LOGY
Course No Maine First Semester (fall)	CR 17	Course No/Name	CR.	Course No Marne Tree Fifth Semester (fall)	R 2
EGL101 College Composition	м	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.	ю	MMSC301 Introduction to Biotechnology	7
BIO130/BIO131 Principles of Biology I lecture/lab	3/1	BISC207 Intro Biology I	4	MMSC415 Clinical Immunology & Medical Virology	ო
CHM103/CHM113 General Chemistry lecture/lab	3/1	CHEM103/133 Gen Chem I lecture/lab	3/1	MMSC408 Molecular Preparatory Techniques	2
SOC SCI Social Science Elective (suggest ANT101)	60	ANTH101 Intro to Social & Cultural Anthropology (m/c & HCC breadth requirement)	ဗ	MMSC425 Basic Recombinant DNA Techniques	4
ARTS/HUM Arts & Humanities Elective	က	Elective	က	MMSC490 Clinical and Molecular Cell Biology	ന
Second Semester (spring)	12		9)	Sixth Semester (spring) == (;	1
EGL102 Composition & Literature	8	ENGL 101 Tools of Textual Analysis (UD CAH)	က	MMSC426 Protein Purification & Characterization	က
BIO132/BIO133 Principles of Biology II lecture/lab	3/1	BISC208 Intro Biology II	4	MMSC450 Medical Biochemistry	4
CHM104/CHM114 General Chemistry II lecture/lab	3/1	CHEM104/134 Gen Chem II lecture/lab	3/1	MMSC451 Cell and Tissue Culture Techniques	4
MATH117 Precale for Scientists & Engineers: 201	4	MATH117 Precalculus for Scientists & Engineers: MATH241, 242 & 243, respectively)	4	MMSC491 Human Molecular Genetics	,
202 & 203 also will satisfy AMBB's math requirement)					2
		T.		MMSC492 Application Molecular Diagnostic Tech	ო
Subtotal	32		32		2

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A.S. Bio Sciences, Blomed/B.S.AMBB

	GR 15	w	7	က	60	က	-	16	4	ო	2	က	ო	+	6	122
BACHELOR'S DEGREE COMPLETION B.S. APPLIED MOLECULAR BIOLOGY & BIOTECHNOLOGY UNIVERSITY OF DELAWARE	Course No./Name Seventh Semester (fall)	MMSC200 The Language of Medicine	MMSC375 Stats & Research for Med Lab Scientists	MMSC435Intro to Genomics, Proteomics & Bioinformatics	MMSC441 Blotechnology Practicum I	MMSC442 Biotechnology Practicum II	MMSC461 Laboratory Practice & Leadership I	Eightfn:Semesten (spring)	ANFS449 Food Biotechnology	HLTH241 Ethical Aspects of Healthcare (CAH breadth)	MMSC427 Flow Cytometry	MMSC443 Biotechnology Practicum III	MMSC444 Biotechnology Practicum IV	MMSC471 Laboratory Practice & Leadership II		GRAND TOTAL 32+28+ 11+ 31= 122
	CR 14	ဗ	က	4	3/1			77.	4	3/1	က	m			28	99
BACHELOR'S DEGREE COURSE MATCH	Course No/Name	COMM166DE Dept Elective OR COMM350 Public Speaking, respectively	PSYC100 General Psych, SOCI201 Intro Soc OR POSC150 Intro Amer Politics (SBS breadth)	KAAP309 Human Anatomy & Physlology	CHEM321/325 Organic Chemistry ! lecture/lab				KAAP310 Human Anatomy & Physiology II	CHEM322/326 Organic Chemistry II lecture/lab	BISC366 Department Elective	Elective		0		
CAL	유 후	ю	က	3/1	4			4.0	3/1	4	က	က			28	8
ASSOCIATE DEGREE PROGRAM A.S. CECIL COLLEGE BIOLOGICAL SCIENCES/BIOMEDICAL SCIENCES CONCENTRATION	Course No /Name	tion (SOC SCI Social Science Elective (Options; PSY101, SOC101 or POS201)	Concentration Requirement (BIO208/218 Human Anatomy & Physiology I lecture/lab)	Concentration Requirement (CHM203 Organic Chemistry I with lab)			Fourth:Semester (spring)。	Concentration Requirement (BIO209/219 Human	Concentration Requirement (CHM204 Organic	Concentration Requirement (BIO200 Microbiology)	ARTS/HUM Arts & Humanities Elective			Subtretai	TOTAL

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ARTICULATED DEGREE CURRICULUM

Suggested Course Sequence

	ECIL C	ASSOCIATE DEGREE PROGRAM A.S. COLLEGE BIOLOGICAL SCIENCES/BIOMEDIC SCIENCES CONCENTRATION		BACHELOR'S DEGREE COMPLETION B.S. APPLIED MOLECULAR BIOLOGY & BIOTECHNOLO UNIVERSITY OF DELAWARE						
		Semester 1 (Fall)	CR 17			(Semester 5 (Fall)	CR 14			
EGL	101	College Composition	3	MMSC	301	Introduction to Biotechnology	2			
BIO	130/ 131	Principles of Biology I lecture/lab	3/1	MMSC	415	Clinical immunology & Medical Virology	3			
CHM	103/ 113	General Chemistry I lecture/lab	3/1	MMSC	408	Molecular Preparatory Techniques	2			
XXX	XXX	Social Science Elective	3	MMSC	425	Basic Recombinant DNA Techniques	4			
XXX	XXX	Arts & Humanities Elective	3	MMSC	490	Clinical and Molecular Cell Biology	3			
(4,381%)))	 	 Semester 2 (Spring)	域15度	WARRED O		Semester 6 (Spring)	17:2			
ENG	102	Composition & Literature	3	MMSC	426	Protein Purification and Characterization	3			
BIO	132/ 133	Principles of Biology II lecture/lab	3/1	MMSC	450	Medical Biochemistry	4			
СНМ	104/ 114	General Chemistry II lecture/lab	3/1	MMSC	451	Cell and Tissue Culture Techniques	4			
MAT	XXX	Elective (MAT191 or higher)	4	MMSC	491	Human Molecular Genetics	3			
				MMSC	492	Application of Molecular Diagnostic Technique	3			
		Semester 3 (Fall)				Semester 7 (Fall)				
SPH SPH	121 or 141	Interpersonal Communication or Public Speaking	3	MMSC	200	Language of Medicine	3			
XXX	XXX	Social Science Elective	3	MMSC	375	Stats and Research for Med Lab Scientists	2			
BIO	208/ 218	Human Anatomy & Physiology i lecture/lab (Concentration Requirement)	3/1	MMSC	435	Intro to Genomics, Proteomics & Bioinformatics	3			
СНМ	203	Organic Chemistry I with lab (Concentration Requirement)	4	MMSC	441	Biotechnology Practicum I	3			
		7		MMSC	442	Biotechnology Practicum II	3			
-	1			MMSC	461	Laboratory Practice & Leadership I	1			
armie XI	or or year	Semester 4 (Spring)	1944 W	11/201	TO THE REAL PROPERTY.	Semester & (Spring)	16			
BIO	209/ 219	Human Anatomy & Physiology II lecture/lab (Concentration Requirement)	3/1	ANFS	449	Food Biotechnology	4			
CHM	204	Organic Chemistry II with lab (Concentration Requirement)	3/1	HLTH	241	Ethical Aspects of Healthcare	3			
BIO	200	Microbiology (Concentration Requirement)	3	MMSC	427	Flow Cytometry	2			
XXX	XXX	Arts & Humanities Elective	3	MMSC	443	Biotechnology Practicum III	3			
			CALLESS III	MMSC	444	Biotechnology Practicum IV	3			
				MMSC	471	Laboratory Practice & Leadership II	1			
		是最快的时间中国的1000000000000000000000000000000000000	≠60 fe	THE PARTY	1619	一种的对象的特别的特别的特别的				
Total C	redits						122			

- The Bachelor of Science program in Applied Molecular Biology & Biotechnology requires a minimum of 122 credits.
- Course sequencing may vary by semester. See your advisor.
- MMSC100 is waived from the AMBB curriculum for students of the articulation agreement.
- Choose from Cacli Social Sciences electives: POS201, PSY101 OR SOC101
- Choose from Cecil Arts & Humanities electives: ART101, ART130, ART140, ART180; EGL102; MUC122; PHI101, PHI201, PHI205
- If CC students complete BIO210 Microbiology Lab (1 credit) with BIO200 Microbiology, these transfer to UD as BISC300 Intro to Microbiology (4 cr)

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Cecil College	University of Delaware
Christine Warwick, MS	Esther Biswas-Fiss, PhD
Chair of Science & Technology Department	Chair, Medical & Molecular Sciences Department
The articulation agreement is subject to change based on Cecil Col	lege 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 Applied Molecular Biology and Biotechnology.

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

CECIL COLLEGE

UNIVERSITY OF DELAWARE

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Mary Way Bolt, EdD	Date	Laura A. Carlson, PhD	Date
President		Provost	
Cecil College		University of Delaware	67
Christy Dryer, DNP) Vice President for Academic Progra	9//3/2023 Oate ums	William Farquhar, PhD Dean College of Health Sciences	9/21/23 Date
3	6	College of Health Sciences	
Christine Warwick, MS Chair	9 323 Date	Esther E. Biswas-Fiss, PhD Chair	9/13/202 <u>3</u> Date
Science & Technology Department		Medical & Molecular Sciences Departn	nent