



## Cecil College and University of Delaware

### **A.S Biological Sciences, Biomedical Concentration to B.S. Medical Diagnostics Pre-Physician Assistant Concentration (MDD-PPA)**

#### **Admissions**

- Graduates of the Cecil College Associate Degree Program in Biological Sciences, Biomedical Concentration 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 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the degree program as outlined in the agreement may have admission based on the articulation agreement criteria rescinded, however still may be considered for regular transfer admission based on the totality of their academic record.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 Cecil College cumulative grade point average to account for Cecil College's grade forgiveness policy when making admission decisions.
- 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 Cecil College portion of the agreement at Cecil College.
- Coursework taken at an institution other than Cecil College 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.
- 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.
- Students are subject to all the policies and procedures of both institutions.
- Students are subject to all specific policies pertaining to students admitted to the MDD-PPA Bachelor's Degree Program.

# CONNECTED DEGREE ANALYSIS

## Matching Worksheet/Suggested Course Sequence/Bachelor's Completion

ASSOCIATE OF SCIENCE DEGREE PROGRAM BIOLOGICAL SCIENCES BIOMEDICAL CONCENTRATION A.S. CECIL COLLEGE		BACHELOR'S DEGREE COURSE MATCH OR POTENTIAL COURSE MATCH		BACHELOR'S DEGREE COMPLETION MEDICAL DIAGNOSTICS PRE-PHYSICIAN ASSISTANT CONCENTRATION B.S. UNIVERSITY OF DELAWARE	
Course No./Name First Semester (fall)	CR 15	Course No./Name	CR 15	Course No./Name Fifth Semester (fall)	CR 14
EGL101 College Composition	3	ENGL166DE: Department Elective <sup>1</sup> (see note below regarding ENGL110 First Year Writing exemption)	3	HBNS200 Nutrition Concepts	3
BIO130 Principles of Biology BIO131 Principles of Biology Lab	3 1	BISC207 Introductory Biology I	4	MMSC200 Language of Medicine	3
CHM103 General Chemistry I CHM113 General Chemistry I Lab	3 1	CHEM103 General Chemistry CHEM133 General Chemistry Lab	3 1	MMSC402 Body Fluid Analysis	2
Math Elective: strongly suggest MAT191 Precalculus <sup>2</sup>	4	MATH117 Precalculus for Scientists & Engineers	4	MMSC415 Clinical Immunology & Medical Virology	3
				STAT200 Basic Statistical Practice	3
<b>Second Semester (spring)</b>	<b>15</b>		<b>15</b>	<b>Sixth Semester (spring)</b>	<b>16</b>
EGL102 Composition and Literature	3	ENGL101 Tools of Textual Analysis	3	MMSC 407 Clinical Physiological Chem I	3
BIO132 Principles of Biology II and BIO133 Principles of Biology II Lab	3 1	BISC208 Introductory Biology II	4	MMSC409 Immunohematology I	2
CHM104 General Chemistry II and CHM114 General Chemistry II Lab	3 1	CHEM104 General Chemistry II CHEM134 General Chemistry II Lab	3 1	MMSC423 Hematology I	2
BIO208 Human Anatomy & Physiology I BIO218 Human Anatomy & Physiology I Lab	3 1	KAAP309 Human Anatomy & Physiology I	4	MMSC428 Medical Microbiology & Parasitology	3
				HLTH241 Ethical Aspects of Healthcare	3
				XXXX### Elective	3
<b>Sub-Total</b>	<b>30</b>		<b>30</b>		<b>30</b>

<sup>1</sup> 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.

For Notes 2 through 6, specific elective courses are suggested in order to maximize efficiency by concurrently satisfying curriculum requirements in both Cecil and UD programs. Students may choose other options for these electives but should be aware that additional coursework may be required to satisfy all program requirements.

<sup>2</sup> MAT191 equivalency satisfies the Cecil curriculum Math requirement and the UD MDDPPA mathematics curriculum requirement.

ASSOCIATE OF SCIENCE DEGREE PROGRAM BIOLOGICAL SCIENCES BIOMEDICAL CONCENTRATION A.S. CECIL COLLEGE		BACHELOR'S DEGREE COURSE MATCH OR POTENTIAL COURSE MATCH		BACHELOR'S DEGREE COMPLETION MEDICAL DIAGNOSTICS PRE-PHYSICIAN ASSISTANT CONCENTRATION B.S. UNIVERSITY OF DELAWARE	
Course No./Name Third Semester (fall)	CR 14	Course No./Name	CR 14	Course No./Name Seventh Semester (fall)	CR 14
Biomedical Concentration requirement: BIO200 Microbiology (required) and strongly suggest BIO210 Microbiology Lab <sup>3</sup>	3 1	BISC300 Introduction to Microbiology	4	MMSC100 Intro to Med & Molecular Sciences	1
CHM203 Organic Chemistry I with Lab	4	CHEM321 Organic Chemistry I CHEM325 Organic Chemistry I Lab	3 1	MMSC420 Immunohematology II	2
Social Science Elective: student choice from list	3	Elective	3	MMSC433 Hematology II	2
SPH121 Interpersonal Communications or SPH141 Public Speaking	3	COMM166DE Department Elective or COMM212 Public Speaking & Professional Presentation	3	MMSC436 Clinical Physiological Chem II	3
				MMSC438 Diagnostic Bacteriology & Medical Mycology	3
				MMSC490 Clinical and Molecular Cell Bio	3
<b>Fourth Semester (spring)</b>	<b>17</b>		<b>17</b>	<b>Eighth Semester (spring)</b>	<b>15</b>
CHM204 Organic Chemistry II with Lab	4	CHEM322 Organic Chemistry II CHEM326 Organic Chemistry II Lab	3 1	CHEM214 Elementary Biochemistry	3
BIO209 Human Anatomy & Physiology II BIO219 Human Anatomy & Physiology II Lab	3 1	KAAP310 Human Anatomy & Physiology II	4	MMSC462 Interdisciplinary Healthcare Perspectives	3
Arts & Humanities Elective <sup>4</sup> strongly suggest: HIST110 World History I or HIST111 World History II	3	HIST103 World History to 1400 or HIST104 World History since 1400	3	MMSC491 Human Molecular Genetics	3
Arts & Humanities Elective <sup>5</sup> strongly suggest: ENG204 Survey Engl Lit 19 <sup>th</sup> Cent–Pres or ENGL205 Survey American Lit – Civil War	3	ENGL206 British Lit 1660 to Present or ENGL340 American Lit to Civil War	3	Second Writing Requirement	3
Social Science Elective: strongly suggest PSY101 Intro to Psychology <sup>6</sup>	3	PSYC General Psychology (SBS breadth)	3	Electives	3
<b>Sub-Total</b>	<b>31</b>		<b>31</b>		<b>29</b>
<b>TOTAL</b>	<b>61</b>		<b>61</b>		<b>59</b>

3 BIO200 equivalency satisfies the Cecil Biomedical Concentration requirement; adding the BIO210 Microbiology Lab also satisfies the UD MDDPPA curriculum microbiology requirement.

4 HIST110 or HIST111 equivalency will satisfy both a Cecil Arts/Humanities elective plus the UD History & Cultural Change breadth and also the UD multicultural requirement.

5 ENG204 or ENG205 equivalency will satisfy both a Cecil Arts/Humanities elective plus the UD curriculum requirement for an ENGL 200-699 course.

6 PSY101 equivalency satisfies both Cecil Social Science elective plus UD Social & Behavioral breadth requirement.

# CONNECTED DEGREE CURRICULUM

## Suggested Course Sequence

ASSOCIATE DEGREE BIOLOGICAL SCIENCES BIOMEDICAL CONCENTRATION A.S. CECIL COLLEGE				BACHELOR'S DEGREE MEDICAL DIAGNOSTICS PRE-PHYSICIAN ASSISTANT CONCENTRATION B.S. UNIVERSITY OF DELAWARE			
Semester 1 (Fall)			CR 15	Semester 5 (Fall)			CR 14
EGL	101	College Composition <sup>1</sup>	3	HBNS	200	Nutrition Concepts	3
BIO	130	Principles of Biology I	3	MMSC	200	Language of Medicine	3
BIO	131	Principles of Biology I Lab	1	MMSC	402	Body Fluid Analysis	2
CHM	103	General Chemistry I	3	MMSC	415	Clinical Immunology & Medical Virology	3
CHM	113	General Chemistry I Lab	1	STAT	200	Basic Statistical Practice	3
MAT	191	Precalculus <sup>2</sup>	4				
Semester 2 (Spring)			15	Semester 6 (Spring)			16
EGL	102	Composition & Literature	3	MMSC	407	Clinical Physiological Chem I	3
BIO	132	Principles of Biology II	3	MMSC	409	Immunohematology I	2
BIO	133	Principles of Biology II Lab	1	MMSC	423	Hematology I	2
CHM	104	General Chemistry II	3	MMSC	428	Medical Microbiology & Parasitology	3
CHM	114	General Chemistry II Lab	1	HLTH	241	Ethical Aspects of Healthcare	3
BIO	208	Human Anatomy & Physiology I	3	XXXX	###	Elective	3
BIO	218	Human Anatomy & Physiology I Lab	1				
Semester 3 (Fall)			14	Semester 7 (Fall)			14
CHM	203	Organic Chemistry I	4	MMSC	100	Introduction to Medical & Molecular Sciences	1
BIO	200	Microbiology <sup>3</sup>	3	MMSC	420	Immunohematology II	2
BIO	210	Microbiology Lab <sup>3</sup>	1	MMSC	433	Hematology II	2
SPH	121 or 141	Interpersonal Communications or Public Speaking	3	MMSC	436	Clinical Physiological Chemistry II	3
XXX	###	Social Science Elective (student choice)	3	MMSC	438	Diagnostic Bacteriology & Medical Mycology	3
				MMSC	490	Clinical & Molecular Cellular Biology	3
Semester 4 (Spring)			17	Semester 8 (Spring)			15
BIO	209	Human Anatomy & Physiology II	3	CHEM	214	Elementary Biochemistry	3
BIO	219	Human Anatomy & Physiology II Lab	1	MMSC	462	Interdisciplinary Healthcare Perspectives	3
CHM	204	Organic Chemistry II	4	MMSC	491	Human Molecular Genetics	3
HIS	110 or 111	World History I or World History II <sup>4</sup>	3	XXXX	###	Second Writing Requirement	3
ENG	204 or 205	ENGL206 British Lit 1660 to Present or ENGL340 American Lit to Civil War <sup>5</sup>	3	XXXX	###	Elective	3
PSY	101	Introduction to Psychology <sup>6</sup>	3				
<b>Total Credits</b>			<b>61</b>				<b>59</b>
<ul style="list-style-type: none"> <li>• See notes on pages 5 and 6 for information about ENG101 equivalency and the selection of the Cecil curriculum elective courses.</li> <li>• The UD Medical Diagnostics Pre-Physician Assistant Concentration Bachelor of Science program in 2024 requires a minimum of 120 credits.</li> <li>• Course sequencing may vary by semester. See your advisor.</li> </ul>							
For more information contact:							
<b>Cecil College</b>  <b>Contact name/information</b> <b>Christine Warwick, M.S.</b> <b>Chair, Science &amp; Technology Department</b> <b>cwarwick@cecil.edu</b>				<b>University of Delaware</b>  <b>Contact name/information</b> <b>Esther Biswas-Fiss, PhD</b> <b>Department Chair, Medical &amp; Molecular Sciences</b> <b>ebiswas@udel.edu</b>			
The articulation agreement is subject to change based on Cecil and UD curriculum changes						01/2024	