



## **Cecil College and University of Delaware**

### **A.S Biological Sciences, Biology Concentration to B.S. Medical Diagnostics (MDD)**

#### **Admissions**

- Graduates of the Cecil College Associate Degree Program in Biological Sciences, Biology 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the degree program as outlined in the agreement may have admission based on the articulation agreement criteria rescinded, however still may be considered for regular transfer admission based on the totality of their academic record.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 Bachelor's Degree Program.

# CONNECTED DEGREE ANALYSIS

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

ASSOCIATE OF SCIENCE DEGREE PROGRAM BIOLOGICAL SCIENCES BIOLOGY CONCENTRATION A.S. CECIL COLLEGE		BACHELOR'S DEGREE COURSE MATCH OR POTENTIAL COURSE MATCH		BACHELOR'S DEGREE COMPLETION MEDICAL DIAGNOSTICS 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 15
EGL101 College Composition	3	ENGL166DE: Department Elective <sup>1</sup> (see note below regarding ENGL110 First Year Writing exemption)	3	BISC306 General Physiology	3
BIO130 Principles of Biology	3	BISC207 Introductory Biology I	4	MMSC200 Language of Medicine	3
BIO131 Principles of Biology Lab	1				
CHM103 General Chemistry I	3	CHEM103 General Chemistry	3	MMSC402 Body Fluid Analysis	2
CHM113 General Chemistry I Lab	1	CHEM133 General Chemistry Lab	1		
Math Elective: strongly suggest MAT191 Precalculus <sup>2</sup>	4	MATH117 Precalculus for Scientists & Engineers	4	MMSC415 Clinical Immunology & Medical Virology	3
				PHYS201 Introductory Physics I and PHYS221 Introductory Physics I Lab	3 1
<b>Second Semester (spring)</b>	<b>15</b>		<b>15</b>	<b>Sixth Semester (spring)</b>	<b>14</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	3	BISC208 Introductory Biology II	4	MMSC409 Immunohematology I	2
BIO133 Principles of Biology II Lab	1				
CHM104 General Chemistry II and	3	CHEM104 General Chemistry II	3	MMSC423 Hematology I	2
CHM114 General Chemistry II Lab	1	CHEM134 General Chemistry II Lab	1		
Biology Concentration Math Elective: strongly suggest MAT127 Intro to Statistics <sup>3</sup>	4	STAT200 Basic Statistical Practice and MATH166DE	3 1	MMSC428 Medical Microbiology & Parasitology	3
				PHYS202 Introductory Physics II and PHYS222 Introductory Physics II Lab	3 1
<b>Sub-Total</b>	<b>30</b>		<b>30</b>		<b>29</b>

1 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 7, 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.

2 MAT191 equivalency satisfies the Cecil curriculum Math requirement, the UD MDD mathematics curriculum requirement and serves as the prerequisite for Physics I and II at UD.

3 MAT127 equivalency satisfies both a Cecil Biology Concentration Math Elective and the UD Statistics requirement.

ASSOCIATE OF SCIENCE DEGREE PROGRAM BIOLOGICAL SCIENCES BIOLOGY CONCENTRATION A.S. CECIL COLLEGE		BACHELOR'S DEGREE COURSE MATCH OR POTENTIAL COURSE MATCH		BACHELOR'S DEGREE COMPLETION MEDICAL DIAGNOSTICS B.S. UNIVERSITY OF DELAWARE	
Course No./Name Third Semester (fall)	CR 17	Course No./Name	CR 17	Course No./Name Seventh Semester (fall)	CR 14
Biology Concentration BIO/ENV Elective: strongly suggest BIO200 Microbiology and BIO210 Microbiology Lab <sup>4</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: strongly suggest SOC101 Introduction to Sociology <sup>5</sup>	3	SOCI201 Introduction to Sociology	3	MMSC433 Hematology II	2
Social Science Elective: strongly suggest PSY101 Intro to Psychology <sup>5</sup>	3	PSYC General Psychology	3	MMSC436 Clinical Physiological Chem II	3
SPH121 Interpersonal Communications or SPH141 Public Speaking	3	COMM166DE Department Elective or COMM212 Public Speaking & Professional Presentation	3	MMSC438 Diagnostic Bacteriology & Medical Mycology	3
				MMSC490 Clinical and Molecular Cell Bio	3
<b>Fourth Semester (spring)</b>	<b>14</b>		<b>14</b>	<b>Eighth Semester (spring)</b>	<b>16</b>
CHM204 Organic Chemistry II with Lab	4	CHEM322 Organic Chemistry II CHEM326 Organic Chemistry II Lab	3 1	CHEM214 Elementary Biochemistry	3
Biology Concentration Math Elective; one of: MAT128 Introduction to Statistics II or MAT201 Calculus I w/Analytic Geometry or MAT202 Calculus II w/Analytic Geometry or MAT203 Multivariable Calculus	4	STAT266DE Department Elective or MATH241 Analytic Geom & Calc A or MATH242 Analytic Geom & Calc B or MATH243 Analytic Geom & Calc C	4	MMSC462 Interdisciplinary Healthcare Perspectives	3
Arts & Humanities Elective <sup>6</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>7</sup> : strongly suggest: ENGL204 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
				Electives	4
<b>Sub-Total</b>	<b>31</b>		<b>31</b>		<b>30</b>
<b>TOTAL</b>	<b>61</b>		<b>61</b>		<b>59</b>

- 4 BIO200 equivalency alone satisfies the Cecil Biomedical Concentration requirement; adding the BIO210 Microbiology Lab also satisfies the UD MDDPPA curriculum microbiology requirement.
- 5 PSY101 and SOC101 equivalencies satisfy both Cecil Social Science electives plus two UD Social & Behavioral breadth requirements and also include material tested on the MCAT.
- 6 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.
- 7 ENGL204 or ENGL205 equivalency will satisfy both a Cecil Arts/Humanities elective and the UD requirement for an ENGL 200-699 course.

# CONNECTED DEGREE CURRICULUM

## Suggested Course Sequence

ASSOCIATE DEGREE BIOLOGICAL SCIENCES, BIOLOGY CONCENTRATION A.S. CECIL COLLEGE				BACHELOR'S DEGREE MEDICAL DIAGNOSTICS B.S. UNIVERSITY OF DELAWARE			
<b>Semester 1 (Fall)</b>			<b>CR 15</b>	<b>Semester 5 (Fall)</b>			<b>CR 15</b>
EGL	101	College Composition <sup>1</sup>	3	BISC	306	Human Physiology	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	PHYS	201	Introductory Physics I	3
MAT	191	Precalculus <sup>2</sup>	4	PHYS	221	Introductory Physics I Lab	1
<b>Semester 2 (Spring)</b>			<b>15</b>	<b>Semester 6 (Spring)</b>			<b>14</b>
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	PHYS	202	Introductory Physics II and	3
MAT	127	Introduction to Statistics <sup>3</sup>	4	PHYS	222	Introductory Physics II Lab	1
<b>Semester 3 (Fall)</b>			<b>17</b>	<b>Semester 7 (Fall)</b>			<b>14</b>
CHM	203	Organic Chemistry I	4	MMSC	100	Introduction to Medical & Molecular Sciences	1
BIO	200	Microbiology <sup>4</sup>	3	MMSC	420	Immunohematology II	2
BIO	210	Microbiology Lab <sup>4</sup>	1	MMSC	433	Hematology II	2
SOC	101	Introduction to Sociology <sup>5</sup>	3	MMSC	436	Clinical Physiological Chemistry II	3
PSY	101	Introduction to Psychology <sup>5</sup>	3	MMSC	438	Diagnostic Bacteriology & Medical Mycology	3
SPH	121 or 141	Interpersonal Communications or Public Speaking	3  3	MMSC	490	Clinical & Molecular Cellular Biology	  3
<b>Semester 4 (Spring)</b>			<b>14</b>	<b>Semester 8 (Spring)</b>			<b>16</b>
CHM	204	Organic Chemistry II	4	CHEM	214	Elementary Biochemistry	3
Math	XXX	Choose MAT 128, 201, 202 or 203	4	MMSC	462	Interdisciplinary Healthcare Perspectives	3
HIS	110 or 111	World History I or World History II <sup>6</sup>	3  3	MMSC	491	Human Molecular Genetics	3
ENG	204 or 205	ENGL206 British Lit 1660 to Present or ENGL340 American Lit to Civil War <sup>7</sup>	3  3	XXXX	###	Second Writing Requirement	3
				XXXX	###	Electives	4
<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 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	