



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the degree program as outlined in the agreement may have admission based on the articulation agreement criteria rescinded, however still may be considered for regular transfer admission based on the totality of their academic record.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 ¹ (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 ² | 4 | MATH117 Precalculus for Scientists & Engineers | 4 | MMSC415 Clinical Immunology & Medical Virology | 3 |
| | | | | STAT200 Basic Statistical Practice | 3 |
| | | | | | |
| Second Semester (spring) | 15 | | 15 | Sixth Semester (spring) | 16 |
| 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 |
| Sub-Total | 30 | | 30 | | 30 |

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 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.

² 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 ³ | 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 |
| Fourth Semester (spring) | 17 | | 17 | Eighth Semester (spring) | 15 |
| 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 ⁴ 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 ⁵ strongly suggest: ENG204 Survey Engl Lit 19 th 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 ⁶ | 3 | PSYC General Psychology (SBS breadth) | 3 | Electives | 3 |
| Sub-Total | 31 | | 31 | | 29 |
| TOTAL | 61 | | 61 | | 59 |

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 ¹ | 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 ² | 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 ³ | 3 | MMSC | 420 | Immunohematology II | 2 |
| BIO | 210 | Microbiology Lab ³ | 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 ⁴ | 3 | XXXX | ### | Second Writing Requirement | 3 |
| ENG | 204 or 205 | ENGL206 British Lit 1660 to Present or ENGL340 American Lit to Civil War ⁵ | 3 | XXXX | ### | Elective | 3 |
| PSY | 101 | Introduction to Psychology ⁶ | 3 | | | | |
| Total Credits | | | 61 | | | | 59 |
| <ul style="list-style-type: none"> • See notes on pages 5 and 6 for information about ENG101 equivalency and the selection of the Cecil curriculum elective courses. • The UD Medical Diagnostics Pre-Physician Assistant Concentration Bachelor of Science program in 2024 requires a minimum of 120 credits. • Course sequencing may vary by semester. See your advisor. | | | | | | | |
| For more information contact: | | | | | | | |
| Cecil College Contact name/information Christine Warwick, M.S. Chair, Science & Technology Department cwarwick@cecil.edu | | | | University of Delaware Contact name/information Esther Biswas-Fiss, PhD Department Chair, Medical & Molecular Sciences ebiswas@udel.edu | | | |
| The articulation agreement is subject to change based on Cecil and UD curriculum changes | | | | | | 01/2024 | |