

# Medical Diagnostics – Pre-Physician Assistant (MDD-PPA) Major

## Curriculum for 2023-2024 Academic Year

120 Credits & ≥2.0 Cumulative GPA Required for Graduation

### University Requirements:

- \_\_\_ ENGL110 First Year Writing\*
- \_\_\_ First Year Experience I, 1 cr (UNIV101)
- ✓ Discovery Learning Experience (DLE) 3 cr (satisfied by MMSC462)
- \_\_\_ Multicultural Requirement 3 cr \_\_\_\_\_ (may simultaneously satisfy breadth or 2<sup>nd</sup> writing)
- \_\_\_ University Breadth Requirements\* (these must be from **four different areas of study**/course rubrics)
  - ✓ Creative Arts & Humanities\* 3 cr (satisfied by ≥ C- in HLTH241)
  - \_\_\_ History & Cultural Change\* 3 cr \_\_\_\_\_
  - ✓ Social & Behavioral Sciences\* 3cr (satisfied by ≥ C- in PSYC100)
  - ✓ Math, Natural Science & Technology\* 3 cr (satisfied by ≥ C- in BISC207 or 208, CHEM103 or 104)
- ✓ Capstone Experience (satisfied by MMSC462)

### MAJOR REQUIREMENTS:

- \_\_\_ Second Writing Requirement (must be designated in term taken; may also be breadth)
- \_\_\_ Mathematics (one of the following; MATH114, 115, 117, 221 or 241)
- \_\_\_ English Course: any ENGL course ≥200 level (may simultaneously satisfy breadth or 2<sup>nd</sup> writing)
- \_\_\_ Additional Breadth
  - \_\_\_ Choose Creative Arts & Humanities, History & Cultural Change or Social & Behavioral Sciences 3 cr \_\_\_\_\_

### Core (86 credits):

- |   |  |
|---|--|
| ___ BISC207 Introductory Biology I:4  | ___ MMSC420 Immunohematology II*: 2  |
| ___ BISC208 Introductory Biology II: 4  | ___ MMSC423 Hematology I*: 2   |
| ___ CHEM103/133 Gen Chem/for Life Sci I: 4  | ___ MMSC428 Medical Microbiology & Parasitology*: 3                                  |
| ___ CHEM104/134 Gen Chem/for Life Sci II:4  | ___ MMSC433 Hematology II*: 2  |
| ___ CHEM213 Elementary Organic Chem:3**   | ___ MMSC436 Clin Physiological Chem II*: 3   |
| ___ CHEM215 Elementary Organic Chem Lab:1**   | ___ MMSC438 Diagnostic Bacteriology & Medical Mycology*: 3                           |
| ___ CHEM214 Elem Biochem:3**  | ___ MMSC462 Interdisciplinary Healthcare Perspectives*: 3                            |
| ___ CHEM216 Elementary Biochem Lab:1**  | ___ MMSC490 Clinical & Molecular Cell Bio: 3 or BISC401 Molecular Bio of the Cell: 3 |
| ___ HLTH241 Ethical Aspects of Healthcare: 3  | ___ MMSC491 Human Molecular Genetics: 3 or BISC403 Genetics: 3                       |
| ___ KAAP309 Human Anatomy & Physiology I: 4   | ___ NTDT200 Nutrition Concepts: 3  |
| ___ KAAP310 Human Anatomy & Physiology II: 4  | ___ PSYC100 General Psychology: 3  |
| ___ MMSC100 Intro Med & Molec Sciences (P/F)*: 1  | ___ STAT200 Basic Statistical Practice: 3 or STAT408 Statistical Research Methods: 3 |
| ___ MMSC200 The Language of Medicine*: 3  | ___ ≥ 120 credits/2.0 Cum GPA required for graduation                                |
| ___ MMSC270 Med Microbio & Infectious Disease: 4 or BISC300 Introduction to Microbiology: 4 |  |
| ___ MMSC402 Body Fluid Analysis*: 2   |  |
| ___ MMSC407 Clin Physiological Chem I*: 3   |  |
| ___ MMSC409 Immunohematology I*: 2  |  |
| ___ MMSC415 Clinical Immun & Medical Virology*: 3   |  |

✓ - indicates that this requirement will be satisfied by a course within the required major/core courses

\* ≥ C- required

\*\* may substitute the sequence of **CHEM321/325 AND 322/326 AND CHEM214** for **CHEM 213/215 AND 214/216**

Please note: in order to be positioned competitively for admission to PA, medical and dental programs as well as most other medical/healthcare professional or grad programs, a minimum cumulative undergraduate GPA of 3.0 will likely be required, with many programs well in excess of that. Students are advised to confirm admission requirements at your specific program(s) of interest.

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### Suggested MDD-PPA Academic Program Sequence

Consult with your advisor for possible alternative sequencing and term availability of courses. MMSC course term availability listed below is proposed for the 2023-24 academic year but is subject to change. Refer to Course Descriptions at <https://udapps.nss.udel.edu/CourseDescription/> for associated course Prerequisites and Corequisites.

#### First Year

30 credits

##### FALL – 16 credits

BISC207 Intro Biology I: 4  
CHEM103/133 Gen Chemistry: 4  
Mathematics: 3  
MMSC100 Intro to Medical & Molecular Sciences (P/F): 1  
UNIV101 First Year Experience I: 1  
Breadth Requirement \_\_\_\_\_: 3

##### SPRING – 14 credits

BISC208 Intro Biology II: 4  
CHEM104/134 Gen Chemistry: 4  
ENGL110 First Year Writing: 3  
MMSC200 The Language of Medicine: 3

#### Second Year

29 credits

##### FALL – 14 credits

CHEM213 Elementary Organic Chem: 3\*\*  
CHEM215 Elem Organic Chem Lab: 1\*\*  
KAAP309 Human Anatomy & Physiology I: 4  
NTDT200 Nutrition Concepts: 3  
PSYC100 General Psychology: 3

##### SPRING – 15 credits

CHEM214 Elementary Biochemistry: 3\*\*  
CHEM216 Elem Biochemistry Lab: 1\*\*  
KAAP310 Human Anatomy & Physiology II: 4  
MMSC270 Med Micro/Infect Dis or BISC300 Intro Micro: 4  
Breadth Requirement \_\_\_\_\_: 3

#### Third Year

30 credits

##### FALL – 14 credits; MMSC courses below Fall only

MMSC402 Body Fluid Analysis: 2  
MMSC415 Clinical Immunology & Medical Virology: 3  
STAT200 Basic Statistical Practice or  
STAT408 Statistical Research Methods: 3  
Second Writing Requirement (designated each term): 3  
Elective \_\_\_\_\_: 3

##### SPRING – 16 credits; MMSC courses below Spring only

HLTH241 Ethical Aspects of Healthcare: 3  
MMSC407 Clinical Physiological Chemistry I: 3  
MMSC409 Immunohematology I: 2  
MMSC423 Hematology I: 2  
MMSC428 Medical Microbiology & Parasitology: 3  
Elective \_\_\_\_\_: 3

#### Fourth Year

31 credits

##### FALL – 16 credits; MMSC courses below Fall only

MMSC420 Immunohematology II: 2  
MMSC433 Hematology II: 2  
MMSC436 Clinical Physiological Chemistry II: 3  
MMSC438 Diagnostic Bacteriology & Med Mycology: 3  
MMSC490 Clin & Molecular Cell Biology: 3 OR  
BISC401 Molecular Biology of the Cell: 3  
Elective: \_\_\_\_\_: 3

##### SPRING – 15 credits; MMSC course below Spring only

ENGL200 or higher: 3  
MMSC462 Interdisciplinary Healthcare Perspectives: 3  
MMSC491 Human Molecular Genetics: 3 OR  
BISC403 Genetics: 3  
Multicultural: \_\_\_\_\_: 3  
Elective \_\_\_\_\_: 3

**Total of 120 credits**

**4+1 BS/MS Program students substitute:** 1) MMSC603 Research Design for STAT200, and 2) MMSC690 Clinical & Molecular Cell Biology for MMSC490

Students are strongly advised to refer to their **Degree Audit** regularly (accessed via UDSIS) to confirm progressive completion of graduation requirements as designated in the UD online Undergraduate Catalog. Although every effort is made to accurately reflect curriculum requirements here, students are responsible for utilizing the Degree Audit for official confirmation of the status of degree requirement completion.

Medical Diagnostics Pre-Physician Assistant 23-24 program requirements can be found at: [www.udel.edu/catalog](http://www.udel.edu/catalog) > Programs > Medical Diagnostics - Pre Physician Assistant Concentration (BS). Please be sure to select the correct academic year for your program requirements.

\*\* may substitute the sequence of **CHEM321/325 AND 322/326 AND CHEM214** for **CHEM213/215 and 214/216**