

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

## Curriculum for 2021-2022 Academic Year

120 Credits & ≥2.0 Cumulative GPA Required for Graduation

### University Requirements:

- ENGL110 Seminar in Composition\*
- First Year Seminar (FYS) 0-4 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 (after 45 credits completed; 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
  - Either Creative Arts & Humanities or History & Cultural Change 3 cr \_\_\_\_\_
  - Social & Behavioral Sciences 3 cr \_\_\_\_\_

### Core \* (84 credits; minimum grade of C- required in all MMSC courses):

- |  |  |
|--|--|
| <input type="checkbox"/> BISC207 Introductory Biology I:4              | <input type="checkbox"/> MMSC409 Immunohematology I: 2                         |
| <input type="checkbox"/> BISC208 Introductory Biology II: 4            | <input type="checkbox"/> MMSC420 Immunohematology II: 2                        |
| <input type="checkbox"/> BISC300 Introduction to Microbiology: 4       | <input type="checkbox"/> MMSC423 Hematology I: 2                               |
| <input type="checkbox"/> CHEM103/133 or 107 Gen Chem/for Life Sci I: 4 | <input type="checkbox"/> MMSC428 Medical Microbiology: 3                       |
| <input type="checkbox"/> CHEM104/134 or 108 Gen Chem/for Life Sci II:4 | <input type="checkbox"/> MMSC433 Hematology II: 2                              |
| <input type="checkbox"/> CHEM213 Elementary Organic Chem:3**           | <input type="checkbox"/> MMSC436 Clin Physiological Chem II: 3                 |
| <input type="checkbox"/> CHEM215 Elementary Organic Chem Lab:1**       | <input type="checkbox"/> MMSC438 Diagnostic Bacteriology & Medical Mycology: 2 |
| <input type="checkbox"/> CHEM214 Elem Biochem:3**                      | <input type="checkbox"/> MMSC462 Interdisciplinary Healthcare Perspectives: 3  |
| <input type="checkbox"/> CHEM216 Elementary Biochem Lab:1**            | <input type="checkbox"/> MMSC490 Clinical & Molecular Cell Bio: 3 ***          |
| <input type="checkbox"/> HLTH241 Ethical Aspects of Healthcare: 3      | <input type="checkbox"/> MMSC491 Human Molecular Genetics: 3 ***               |
| <input type="checkbox"/> KAAP309 Human Anatomy & Physiology I: 4       | <input type="checkbox"/> NTDT200 Nutrition Concepts: 3                         |
| <input type="checkbox"/> KAAP310 Human Anatomy & Physiology II: 4      | <input type="checkbox"/> PSYC100 General Psychology: 3                         |
| <input type="checkbox"/> MMSC100 Intro to Med Lab Sciences: 1          | <input type="checkbox"/> STAT200 Basic Statistical Practice: 3 or              |
| <input type="checkbox"/> MMSC200 The Language of Medicine: 3           | <input type="checkbox"/> STAT408 Statistical Research Methods: 3               |
| <input type="checkbox"/> MMSC360 Clinical Immun & Medical Virology: 3  | <input type="checkbox"/> ≥ 120 credits/2.0 Cum GPA required for graduation     |
| <input type="checkbox"/> MMSC402 Body Fluid Analysis: 1                |  |
| <input type="checkbox"/> MMSC407 Clin Physiological Chem I: 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 Organic Chem I AND II lectures/labs AND CHEM214 Elementary Biochem for CHEM 213/215 AND 214/216 listed above

\*\*\* may substitute sequence of BISC401 (3) AND BISC403 (3) for MMSC490 (3) AND MMSC491 (3) listed above

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 2020-21 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 or 107 Gen Chemistry: 4  
Mathematics: 3  
MMSC100 Intro to Med Lab Science: 1  
UNIV101 First Year Experience: 1  
Breadth Requirement \_\_\_\_\_ / \_\_\_\_\_: 3

##### SPRING – 14 credits

BISC208 Intro Biology II: 4  
CHEM104/134 or 108 Gen Chemistry: 4  
ENGL110 Seminar in Composition: 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

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

#### Third Year

30 credits

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

CHEM214 Elementary Biochemistry: 4 (only needed if choosing CHEM321, 322, 325, 326 & 214 sequence)\*\*  
MMSC360 Clinical Immunology & Medical Virology: 3  
MMSC402 Body Fluid Analysis: 1  
STAT200 Basic Statistical Practice or  
STAT408 Statistical Research Methods: 3  
Second Writing Requirement: 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: 3  
Breadth Requirement \_\_\_\_\_ / \_\_\_\_\_: 3

#### Fourth Year

31 credits

##### FALL – 15 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: 2  
MMSC490 Clin & Molecular Cell Biology: 3 OR  
BISC401 Molecular Biology of the Cell: 3\*\*\*  
Elective: 3

##### SPRING – 16 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: 4

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**Total of 120 credits**

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. Med Diagnostics Pre-Physician Assistant 21-22 program requirements can be found at: [https://catalog.udel.edu/preview\\_program.php?catoid=47&pooid=34740&returnto=8860](https://catalog.udel.edu/preview_program.php?catoid=47&pooid=34740&returnto=8860)

Please be sure to select the correct academic year for your program requirements.

\*\* may substitute the sequence of CHEM321/325 and 322/326 Organic Chem I and II lectures/labs AND CHEM214 Elementary Biochem for CHEM 213/215 and 214/216

\*\*\* may substitute sequence of BISC401 (3) AND BISC403 (3) for MMSC490 (3) AND MMSC491 (3) listed above