**University Requirements:**

\_\_\_ ENGL110 First Year Writing\*

\_\_\_ Multicultural Requirement 3 cr \_\_\_\_\_\_\_\_\_\_(may simultaneously satisfy breadth or 2nd writing)

\_\_\_ First Year Experience I, 1 cr (UNIV101)

**\_√\_** Discovery Learning Experience (DLE) 3 cr (satisfied by MMSC462)

\_√\_ Capstone Experience (satisfied by MMSC462)

\_\_\_ University Breadth Requirements\* (these must be from **four different areas of study**/course rubrics)

\_\_\_ Creative Arts & Humanities\* 3 cr \_\_\_\_\_\_\_\_\_\_\_

 \_\_\_ History & Cultural Change\* 3 cr \_\_\_\_\_\_\_\_\_\_\_

 \_\_\_ Social & Behavioral Sciences\* 3cr \_\_\_\_\_\_\_\_\_\_\_

\_√\_ Math, Natural Science & Technology\* 3 cr (satisfied by ≥ C- in BISC207 or 208, CHEM103 or 104)

**MAJOR REQUIREMENTS:**

\_\_\_ Second Writing Requirement (must be designated in term taken; may also be breadth)

\_\_\_ Mathematics (one of the following; MATH115, 117, 221 or 241; MATH115 required for PHYS201)

\_\_\_ English Course: any ENGL course ≥200 (may simultaneously satisfy breadth or 2nd writing)

\_\_\_ Additional Breadth

 \_\_\_ Choose Creative Arts & Humanities, History & Cultural Change or

 Social & Behavioral Sciences 3 cr \_\_\_\_\_\_\_\_\_\_\_

**Core (72 credits):**

\_\_\_ BISC207 Introductory Biology I:4

\_\_\_ BISC208 Introductory Biology II: 4

\_\_\_ CHEM103/133 Gen Chem/for Life Sci I: 4

\_\_\_ CHEM104/134 Gen Chem/for Life Sci II:4

\_\_\_ CHEM214 Elem Biochem:3 **OR**

CHEM527 Intro Biochemistry: 3

\_\_\_ CHEM321 Organic Chemistry I: 3

\_\_\_ CHEM325 Organic Chemistry Lab I: 1

\_\_\_ CHEM322 Organic Chemistry II: 3

\_\_\_ CHEM326 Organic Chemistry Lab II: 1

\_\_\_ MMSC100 Intro Med & Molec Sciences (P/F)\*: 1

\_\_\_ MMSC200 The Language of Medicine\*: 3

\_\_\_ 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

\_\_\_ MMSC420 Immunohematology II\*: 2

\_\_\_ MMSC423 Hematology I\*: 2

\_\_\_ MMSC428 Medical Microbiology & Parasitology\*: 3

\_\_\_ MMSC433 Hematology II\*: 2

\_\_\_ MMSC436 Clin Physiological Chem II\*: 3

\_\_\_ MMSC438 Diagnostic Bacteriology & Medical

Mycology\*: 3

\_\_\_ MMSC462 Interdis. Healthcare Perspectives\*: 3

\_\_\_ MMSC490 Clinical & Molecular Cell Bio: 3 or

 BISC401 Molecular Bio of the Cell: 3

\_\_\_ MMSC491 Human Molecular Genetics: 3, BISC303 Concepts in Gen & Molecular Bio: 3 or BISC403 Genetics

\_\_\_ STAT200 Basic Statistical Practice: 3 or STAT408

Statistical Research Methods: 3

\_\_\_ ≥ 120 credits/2.0 Cum GPA required for graduation

**Science Sequence (8 or 11 credits). Complete one of the following sequences:**

**Option I (recommended for PA school)**:

\_\_\_ KAAP309 Human Anatomy & Physiology I: 4 **AND**

\_\_\_ KAAP310 Human Anatomy & Physiology II: 4

**Option 2 (recommended for medical school):**

\_\_\_ BISC306 General Physiology: 3 **AND**

\_\_\_ PHYS201/221L Introductory Physics I: 4 **AND**

\_\_\_ PHYS202/222L Introductory Physics II: 4

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MMSC Program Director: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

\* ≥ C- required

Please note: in order to be positioned competitively for admission to medical, dental and PA 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.

**Suggested MDD 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 **2024-25** 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: 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 – 15 credits**

MMSC270 Med Micro/Infect Dis or BISC300 Intro Micro: 4

CHEM321 Organic Chemistry I: 3

CHEM325 Organic Chem I Lab: 1

PHYS201/221L Introductory Physics I: 4 **OR**

 KAAP309 Human Anatomy & Physiology I: 4

Multicultural\_\_­­\_\_\_\_\_\_\_\_\_\_\_\_: 3

**SPRING – 14 credits**

BISC306 General Physiology: 3 or Elective (if choosing

KAAP309 and KAAP310 sequence)

CHEM322 Organic Chemistry II: 3

CHEM326 Organic Chem II Lab: 1

PHYS202/222L Introductory Physics II: 4 **OR**

 KAAP310 Human Anatomy & Physiology II: 4

Elective: \_\_\_\_\_\_\_\_\_\_\_: 3

**Third Year 30 credits**

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

CHEM214 Elem Biochem: 3 or CHEM527 Intro Biochem; 3

MMSC402 Body Fluid Analysis: 2

MMSC415 Clinical Immunology & Medical Virology: 3

MMSC490 Clin & Molecular Cell Biology: 3 **OR**

BISC401 Molecular Biology of the Cell: 3

STAT200 Basic Statistical Practice or

STAT408 Statistical Research Methods: 3

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

MMSC407 Clinical Physiological Chemistry I: 3

MMSC409 Immunohematology I: 2

MMSC423 Hematology I: 2

MMSC428 Medical Microbiology & Parasitology: 3

MMSC491 Human Molecular Genetics: 3 **OR**

BISC303 Con in Gen/Mol Bio 3: **OR** BISC403 Genetics: 3

Breadth Requirement\_\_\_\_\_­­\_\_\_\_\_\_\_\_: 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

Breadth Requirement\_\_\_\_\_­­\_\_/\_\_­­\_\_\_\_\_\_\_\_\_\_\_\_: 3

Elective: \_\_\_\_\_\_\_\_\_\_\_: 3

**SPRING – 15 credits; MMSC course below Spring only** ENGL200 or higher: 3

MMSC462 Interdisciplinary Healthcare Perspectives: 3

Second Writing Requirement (designated each term): 3

Breadth Requirement\_\_\_\_\_­­\_\_\_\_\_\_\_\_: 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. Med Diagnostics program requirements can be found at [www.udel.edu/catalog](http://www.udel.edu/catalog) > Programs > Medical Diagnostics (BS). Please be sure to select the correct academic year for your program requirements.