Medical Diagnostics (MDD) Major  
Curriculum for 2022-2023 Academic Year  
120 Credits & ≥2.0 Cumulative GPA Required for Graduation

### University Requirements:
- _ENGL110 Seminar in Composition*
- _Multicultural Requirement 3 cr ______ (may simultaneously satisfy breadth or 2nd writing)
- First Year Seminar (FYS) 0-4 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* 3 cr ______
  - 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
  - Either Creative Arts & Humanities or History & Cultural Change 3 cr ______
  - Social & Behavioral Sciences 3 cr ______

### Core (70 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 Medical & Molecular Sciences*: 1  
- MMSC200 The Language of Medicine*: 3  
- MMSC270 Med Microbio & Infectious Disease: 4 or BISC300 Introduction to Microbiology: 4  
- MMSC360 Clinical Immun & Medical Virology*: 3  
- MMSC402 Body Fluid Analysis*: 1  
- MMSC407 Clin Physiological Chem I*: 3  
- MMSC409 Immunohematology I*: 2  
- MMSC420 Immunohematology II*: 2  
- MMSC423 Hematology I*: 2  
- MMSC428 Medical Microbiology*: 3  
- MMSC433 Hematology II*: 2  
- MMSC436 Clin Physiological Chem II*: 3  
- MMSC438 Diagnostic Bacteriology & Medical Microbiology*: 2  
- MMSC462 Interdis. Healthcare Perspectives*: 3  
- MMSC490 Clinical & Molecular Cell Bio: 3 or BISC401 Molecular Bio of the Cell: 3  
- MMSC491 Human Molecular Genetics: 3 or BISC403 Genetics: 3  
- STAT200 Basic Statistical Practice: 3 or STAT408 Statistical Research Methods: 3  
- ≥ 120 credits/2.0 Cum GPA required for graduation

### Science Sequence (8 or 12 credits). Complete one of the following sequences:

Option 1 (recommended for PA school):
- KAAP309 Human Anatomy & Physiology I: 4  
- KAAP310 Human Anatomy & Physiology II: 4

Option 2 (recommended for medical school):
- BISC276 Human Physiology: 4 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.
**Medical Diagnostics (MDD) Major**

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**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 2022-23 academic year but is subject to change. Refer to Course Descriptions at [https://udapps.nss.udel.edu/CourseDescription/](https://udapps.nss.udel.edu/CourseDescription/) for associated course Prerequisites and Corequisites.

### First Year

**FALL – 16 credits**
- BISC207 Intro Biology I: 4
- CHEM103/133 Gen Chemistry: 4
- Mathematics: 3
- MMSC100 Intro to Medical & Molecular Sciences: 1
- UNIV101 First Year Experience: 1
- Breadth Requirement: 3

**SPRING – 14 credits**
- BISC208 Intro Biology II: 4
- CHEM104/134 Gen Chemistry: 4
- ENGL110 Seminar in Composition: 3
- MMSC200 The Language of Medicine: 3

### Second Year

**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
- Breadth Requirement: 3

**SPRING – 15 credits**
- BISC276 Human Physiology: 4 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
- Multicultural: 3

### Third Year

**FALL – 14 credits; MMSC courses below Fall only**
- CHEM214 Elem Biochem: 3 or CHEM527 Intro Biochem: 3
- MMSC360 Clinical Immunology & Medical Virology: 3
- MMSC402 Body Fluid Analysis: 1
- MMSC490 Clin & Molecular Cell Biology: 3 OR BISC401 Molecular Biology of the Cell: 3
- STAT200 Basic Statistical Practice or STAT408 Statistical Research Methods: 3
- Elective: 1

**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: 3
- MMSC491 Human Molecular Genetics: 3 OR BISC403 Genetics: 3
- Breadth Requirement: 3

### Fourth Year

**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
- Elective: 3
- Breadth Requirement: 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
- Elective: 3
- Breadth Requirement: 3

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**Total of 120 credits**

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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 21-22 program requirements can be found at [https://catalog.udel.edu/preview_program.php?coid=63&pid=49296&returno=16376](https://catalog.udel.edu/preview_program.php?coid=63&pid=49296&returno=16376). Please be sure to select the correct academic year for your program requirements.