Medical Laboratory Science (MLS) Major  
Checklist for Class of 2024 and later  
124 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 MMSC473)  
___ Multicultural Requirement 3 cr ____________ (may simultaneously satisfy breadth or 2nd writing)  
___ 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)  
___ Capstone Experience (satisfied by MMSC473)

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)  
___ Additional Breadth  
    ___ Either Creative Arts & Humanities or History & Cultural Change 3 cr ____________  
    ___ Social & Behavioral Sciences 3 cr ____________

Core * (66 credits; minimum grade of C- required in all MMSC courses):  
___ MMSC100 Intro to Med Lab Sciences: 1  
___ MMSC200 The Language of Medicine: 3  
___ MMSC250 Comm, Ed & Ethics in Healthcare: 1  
___ MMSC360 Clinical Immun & Medical Virology: 3  
___ MMSC362 Clinical Immun & Medical Vir Lab: 1  
___ MMSC370 Phlebotomy Practicum: 1  
___ MMSC375 Stats & Rsrch for Med Lab Scientists: 2  
___ MMSC402 Body Fluid Analysis: 1  
___ MMSC 412 Body Fluid Analysis Lab: 1  
___ MMSC407 Clin Physiological Chem I: 3  
___ MMSC417 Clin Physiological Chem Lab I: 1  
___ MMSC409 Immunohematology I: 2  
___ MMSC419 Immunohematology I Lab: 1  
___ MMSC418 Senior Seminar: 0  
___ MMSC420 Immunohematology II: 2  
___ MMSC421 Immunohematology II Lab: 1  
___ MMSC423 Hematology I: 2  
___ MMSC424 Hematology I Lab: 1  
___ MMSC428 Medical Microbiology: 3  
___ ≥ 124 credits/2.0 Cum GPA required for graduation

Science Requirements (32 credits):  
___ BISC207 Introductory Biology I:4  
___ BISC208 Introductory Biology II: 4  
___ BISC276 Human Physiology: 4  
___ BISC300 Introduction to Microbiology: 4  
___ CHEM103/133 or 107 Gen Chem/for Life Sci I: 4  
___ CHEM104/134 or 108 Gen Chem/for Life Sci II:4  
___ CHEM123 Elementary Organic Chem: 3**  
___ CHEM215 Elem Organic Chem Lab: 1**  
___ CHEM214 Elementary Biochem: 3**  
___ CHEM216 Elementary Biochem Lab: 1**

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  
** may substitute CHEM321/35 and 322/326 Organic Chem I and II lecture and lab for 213/215 and 214/216 listed above

Preferred Criteria for Admission to MLS Major: ≥ 2.0 GPA in first 4 semesters both cumulative and in these courses: BISC207, BISC208, BISC276, BISC300, CHEM103/133 OR 107, CHEM104/134 OR 108, CHEM213/215 AND CHEM214/216; completion of 60 credits. Submit request via Webforms in UDISIS.

Draft 8.16.20
**Medical Laboratory Science (MLS) Major**

**Checklist for Class of 2024 and later**

**124 Credits & ≥2.0 Cumulative GPA Required for Graduation**

### Suggested MLS Academic Program Sequence (see note below)

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/](https://udapps.nss.udel.edu/CourseDescription/) for associated course Prerequisites and Corequisites.

#### First Year

**FALL – 15 credits**

- BISC207 Intro Biology I: 4
- CHEM103 or 107 Gen Chemistry: 4
- Mathematics: 3
- UNIV101 First Year Experience: 1
- Breadth Requirement / / : 3

**SPRING – 15 credits**

- BISC208 Intro Biology II: 4
- CHEM104 or 108 Gen Chemistry: 4
- ENGL110 Seminar in Composition: 3
- MMSC100 Intro to Med Lab Science: 1
- MMSC200 The Language of Medicine: 3

#### Second Year

**FALL – 15 credits**

- BISC276 Human Physiology: 4
- CHEM213/215 Elem Organic Chem Lecture/Lab: 4
- MMSC250 Comm., Educ & Ethics in Hlthcare: 1 (fall only)
- Breadth Requirement / / : 3
- Breadth Requirement / / : 3

**SPRING – 14 credits**

- BISC300 Intro to Microbiology: 4
- CHEM214/216 Elem Biochemistry Lecture/Lab: 4
- Breadth Requirement/Multicultural / / : 3
- Breadth Requirement / / : 3

#### Third Year

**FALL – 15 credits; MMSC courses below Fall only**

- MMSC360/362 Clin Immun & Med Virology Lecture/Lab: 4
- MMSC370 Phlebotomy Practicum: 1
- MMSC375 Research & Stat for Med Lab Scientist: 2
- MMSC402/412 Body Fluid Analysis Lecture/Lab: 2
- MMSC491 Human Molecular Genetics: 3
- Second writing course: 3

**SPRING – 17 credits; MMSC courses below Spring only**

- MMSC493 Cellular & Molecular Diagnostic Techniques: 2
- MMSC407/417 Clinical Physio Chem Lecture/Lab: 4
- MMSC409/419 Immunohematology I Lecture/Lab: 3
- MMSC423/424 Hematology I Lecture/Lab: 3
- MMSC428/429 Medical Microbiology Lecture/Lab: 5

#### Fourth Year

**FALL – 17 credits; MMSC courses below Fall only**

- MMSC418 Senior Seminar: 0
- MMSC420/421 Immunohematology II Lecture/Lab: 3
- MMSC433/434 Hematology II Lecture/Lab: 4
- MMSC436 Clinical Physiological Chemistry II: 3
- MMSC437 Clinical Laboratory Instrumentation: 2
- MMSC438/439 Diagnostic Bacteriology & Med Mycology Lecture and Lab: 4
- MMSC461 Laboratory Practice & Leadership I: 1

**WINTER (off campus – 1 credit (offered winter only)**

- MMSC472 Clinical Urinalysis Practicum: 1

**SPRING – 14 credits; MMSC courses below Spring only**

- MMSC471 Laboratory Practice & Leadership II: 1
- MMSC473 Clinical Chemistry Practicum: 3
- MMSC475 Clinical Hematology Practicum: 3
- MMSC477 Clinical Microbiology Practicum: 3
- MMSC479 Clinical Immunohematology Practicum: 3
- MMSC480 Senior Seminar II: 1
- Elective: 1

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**Total of 124 credits**

**Notes:**

- **Substitution:** may substitute CHEM321/325 and 322/326 Organic Chem I and II lecture and lab for 213/215 and 214/216 listed above.

- **Degree Audit:** 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. Medical Laboratory Science program requirements can be found at: [https://catalog.udel.edu/preview_program.php?catoid=40&poid=29409&returnto=6635](https://catalog.udel.edu/preview_program.php?catoid=40&poid=29409&returnto=6635). Please be sure to select the correct academic year for your program requirements.

- **Note:** Licensure criteria in New York and California may entail additional requirements. See your advisor for details.