MEDICAL LABORATORY SCIENCE, BS
Fall 2017 – Spring 2018

CONTACT INFORMATION
- Honors College Advisor: Patricia Granfield (pgranfield@gmu.edu)
- Biology Department Chair: Larry Rockwood (lrockwood@gmu.edu)
- Director, Medical Laboratory Science Program: Anne Verhoeven (averhoev@gmu.edu)

Once students begin attending Mason and declare a major they should see both their Honors College and their major department advisor (Dr. Verhoeven https://biology.acuityscheduling.com/schedule.php) for advising. Students must confirm their major requirements with their department advisor, with the University catalog (http://catalog.gmu.edu/colleges-schools/science/biology/medical-laboratory-science-bs/#requirementstext), and with PatriotWeb’s Degree Evaluation.

HONORS REQUIREMENTS (see advising section of Honors College website for further details: https://honorscollege.gmu.edu/academics/academic-advising)
- All Honors College students must complete Requirement 1 (HNRS 110 and HNRS 353) and Requirement 2 of the Honors College Curriculum, including taking 3 courses under Requirement 2. In general, students earning a BS take HNRS 122, HNRS 131, and HNRS 240 to fulfill Requirement 2. Any substitutions for these courses should be approved by your Honors College advisor.
- Students earning a BS degree must complete Requirement 3 by taking two additional Honors courses beyond Requirements 1 and 2 of the Honors College Curriculum. These courses should be discussed with your Honors College advisor.

NOTES FROM DEPARTMENT
- This program requires the equivalent of 3 years of full-time preprofessional study at the college level preceding a senior year of professional education in an affiliated school of medical technology. Students who fail to gain admission to an affiliated school are unable to complete the degree program but may transfer to the biology major without loss of credits.
- Students must complete all degree requirements and choose one Professional Study/Concentration option. See catalog and department advisor.
- A grade of C or better must be earned in BIOL 213 in order to advance to other degree requirements.
- A grade of C or better is required in all biology core courses (see catalog for details).

ADVISING SHEET
- Honors College Requirement
- Department Requirement
- College Requirement

<table>
<thead>
<tr>
<th>1st Year – 1st Semester (Fall)</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>o HNRS 110: Research Methods (grade C or better required)</td>
<td>4</td>
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<tr>
<td>♦ BIOL 214/214H: Biostatistics for Biology Majors</td>
<td>4</td>
</tr>
<tr>
<td>♦ BIOL 103: Introductory Biology I (strongly recommended for students who do not have AP, IB/HL or Dual Enrollment Biology credit)</td>
<td>3-4</td>
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<tr>
<td>OR HNRS 122: Reading the Arts</td>
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<tr>
<td>Course</td>
<td>Credits</td>
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<tr>
<td>CHEM 211/211H: General Chemistry I and CHEM 213: General Chemistry Lab I</td>
<td>4</td>
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<tr>
<td>Semester Total</td>
<td>15/16</td>
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1st Year – 2nd Semester (Spring)

- HNRS 122: Reading the Arts, if not taken in the fall | 3 |
- BIOL 213/213H: Cell Structure and Function (Prerequisite for BIOL 213H, honors section only: AP or IB/HL Biology or comparable dual enrollment course in high school, or B+ or better in BIOL 103) | 4 |
- CHEM 212/212H: General Chemistry II and CHEM 214: General Chemistry Lab II | 4 |
- Mathematics: Choose one of the following:
  - MATH 124 if MATH 123 was taken in the fall,
  - MATH 111H (Honors Section only),
  - MATH 113 (requires a placement test)
  - HNRT 225, Applied Calculus (for students who took calculus in high school but did not receive AP or IB credit), or
  - HNRT 125: Liberal Arts Approach to Calculus (for students who have not studied calculus) | 3-4 |
- Semester Total | 14-15 |

2nd Year – 1st Semester (Fall)

- HNRS 131: Contemporary Society in Multiple Perspectives | 3 |
- MLAB 200: Introduction to Medical Laboratory Science | 1 |
- BIOL 311/311H: General Genetics | 4 |
- Elective | 3 |
- Semester Total | 16 |

2nd Year – 2nd Semester (Spring)

- HNRS 240: Reading the Past | 3 |
- BIOL 305: Biology of Microorganisms and BIOL 306: Microbiology Lab | 4 |
- CHEM 314: Organic Chemistry II and CHEM 318: Organic Chemistry II Lab or BIOL 483: General Biochemistry | 4-5 |
- MLAB 300: Science Writing | 2 |
- Elective | 3 |
- Semester Total | 14-16 |

3rd Year – 1st Semester (Fall)*

- BIOL 452: Immunology and BIOL 453: Immunology Lab | 4 |
- BIOL 430: Advanced Human Anatomy and Physiology I | 4 |
- Electives | 6 |
- *Apply to CL schools | Semester Total | 14 |

3rd Year – 2nd Semester (Spring)

- HNRS 353: Technology in the Contemporary World (Grade of C or better required) | 3 |
- BIOL 431: Advanced Human Anatomy and Physiology II | 4 |
<table>
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<tr>
<th>Electives 6</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Total</td>
<td>16</td>
</tr>
<tr>
<td>Total Hours at end of 3rd year</td>
<td>90</td>
</tr>
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### 4th Year – 1st Semester (Fall)
- 30 semester hours in Senior year taken off campus at an affiliated school of medical technology.
- Semester Total | 12 |

### 4th Year – 2nd Semester (Spring)
- 30 semester hours in Senior year taken off campus at an affiliated school of medical technology
- Semester Total | 12 |

### 4th Year – 3rd Semester (Summer)
- 30 semester hours in Senior year taken off campus at an affiliated school of medical technology
- Semester Total | 6 |

### NOTES

1. The Director of the Medical Laboratory Science Program is the faculty advisor in the Biology Program who should be consulted during the first year.
2. MLAB 200 must be taken in the fall of the first or second year.
3. MATH 113, MATH 123/124, MATH 111H (Honors section only), HNRT 225, and HNRT 125 all satisfy the Honors math requirement. MATH 113 and MATH 123 require a placement exam. See the Math Department for days and times.
4. The Honors sections of these courses can be used to satisfy Honors College Requirement 3.
5. HNRS 122 can be used to satisfy Honors College Requirement 2. Because of the extensive preprofessional education requirements stipulated by NAACLS, students majoring in Medical Laboratory Science are exempt from the Mason Core Arts requirement. However, students who transfer to the biology major from this major are required to meet the Mason Core Arts requirement and should take HNRS 122.
6. Recommended and additional required courses will depend on the Professional Study/Concentration option chosen. See the catalog and departmental advisor for details.
7. Students who did not pass the AP Biology exam with a score of 4 or higher, or the IB Biology HL exam with a score of 5 or higher, or a dual enrollment course in high school are encouraged to take BIOL 103: Introductory Biology I before taking BIOL 213.