Bachelor of Science in Medical Laboratory Science

Program Curriculum

120 credits

DSU General Education Requirements

All DSU General Education requirements must be fulfilled. A previously earned degree may fulfill those requirements, but courses must be equivalent to DSU’s minimum General Education standards in American Institutions, English, and Mathematics.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td><strong>General Education Core Requirements</strong> (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)</td>
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<tr>
<td></td>
<td>English</td>
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<tr>
<td></td>
<td>Mathematics</td>
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<td>American Institutions</td>
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<tr>
<td></td>
<td>Life Sciences</td>
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<td></td>
<td>Physical Sciences</td>
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<td>Laboratory Science</td>
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<tr>
<td></td>
<td>Literature/Humanities</td>
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<tr>
<td></td>
<td>Social &amp; Behavioral Sciences</td>
<td>3</td>
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<tr>
<td></td>
<td>Exploration</td>
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<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOL 1610 &amp; BIOL 1615</td>
<td>Principles of Biology I (LS) and Principles of Biology I Lab (LAB)</td>
<td>5</td>
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<tr>
<td>BIOL 2060 &amp; BIOL 2065</td>
<td>Principles of Microbiology and Principles of Microbiology Lab</td>
<td>4</td>
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<tr>
<td>BIOL 2320 &amp; BIOL 2325</td>
<td>Human Anatomy and Human Anatomy Lab</td>
<td>5</td>
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<tr>
<td>BIOL 2420 &amp; BIOL 2425</td>
<td>Human Physiology and Human Physiology Lab</td>
<td>4</td>
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<tr>
<td>CHEM 1110 &amp; CHEM 1115</td>
<td>Elementary General/Organic Chemistry (PS) and Elem General/Organic Chemistry Lab (LAB)</td>
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<td>CHEM 1120 &amp; CHEM 1125</td>
<td>Elem Organic / Bio Chemistry and Elem Organic/Bio Chemistry Lab</td>
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<td>COMM 1020 or COMM 2110</td>
<td>Public Speaking or Interpersonal Communication (SS, GC)</td>
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<tr>
<td>MATH 1040 or STAT 2040</td>
<td>Introduction to Statistics (MA) or Business Statistics</td>
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Please see the program admission tab (catalog.dixie.edu/programs/medicallaboratoryscience/#programadmissionstext) or the department website (https://health.dixie.edu/mls/program-admissions) for information on admission to the Medical Laboratory Science program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MLS 3310</td>
<td>Immunohematology I</td>
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<td>MLS 3312</td>
<td>Clinical Immunology</td>
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<tr>
<td>MLS 3314</td>
<td>Diagnostic Microbiology I</td>
<td>5</td>
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<tr>
<td>MLS 3330</td>
<td>Clinical Chemistry</td>
<td>5</td>
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<tr>
<td>MLS 3555</td>
<td>Research Seminar</td>
<td>2</td>
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<tr>
<td>MLS 3850</td>
<td>Urinalysis and Body Fluids</td>
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<td>MLS 4110</td>
<td>Laboratory Management/Edu</td>
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### Bachelor of Science in Medical Laboratory Science

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>MLS 4200</td>
<td>Clinical Chemistry and Molecular Diagnostics</td>
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<tr>
<td>MLS 4300</td>
<td>Clinical Hematology</td>
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<tr>
<td>MLS 4320</td>
<td>Hemostasis</td>
<td>4</td>
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<tr>
<td>MLS 4330</td>
<td>Clinical Chemistry Practice</td>
<td>4</td>
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<tr>
<td>MLS 4400</td>
<td>Immunohematology II</td>
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<tr>
<td>MLS 4410</td>
<td>Blood Banking Practice</td>
<td>4</td>
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<tr>
<td>MLS 4414</td>
<td>Clinical Microbiology Practice</td>
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<td>MLS 4423</td>
<td>Clinical Hematology Practice</td>
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<tr>
<td>MLS 4600</td>
<td>Diagnostic Microbiology II</td>
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### Graduation Requirements

1. Complete a minimum of 120 college-level credits (1000 and above)
2. Complete at least 40 upper-division credits (3000 and above)
3. Complete at least 30 upper-division credits at DSU for institutional residency.
4. Cumulative GPA 2.0 or higher.
5. Complete MLS professional program requirements
   b. 80% or higher for all MLS courses
   c. Cumulative GPA 3.0 or higher in MLS core courses.
   d. Complete clinical training

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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<tbody>
<tr>
<td><strong>1st Year</strong></td>
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<tr>
<td><strong>Fall Semester</strong></td>
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<td>BIOL 1610</td>
<td>Principles of Biology I (LS)</td>
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<td>and Principles of Biology I Lab (LAB)</td>
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<tr>
<td>ENGL 1010</td>
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<td>MATH 1040</td>
<td>Introduction to Statistics (MA)</td>
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<td>General Elective</td>
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<td><strong>Spring Semester</strong></td>
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<td>BIOL 2320</td>
<td>Human Anatomy</td>
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<td>&amp; BIOL 2325</td>
<td>and Human Anatomy Lab</td>
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<td>CHEM 1110</td>
<td>Elementary General/Organic Chemistry (PS)</td>
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<td>and Elem General/Organic Chemistry Lab (LAB)</td>
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<td><strong>2nd Year</strong></td>
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<td>BIOL 2420</td>
<td>Human Physiology</td>
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<td>and Human Physiology Lab</td>
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<td>COMM 2110</td>
<td>Interpersonal Communication (SS, GC)</td>
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<td>or COMM 1020</td>
<td>or Public Speaking</td>
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<tr>
<td>General Education (Fine Arts) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>BIOL 2060</td>
<td>Principles of Microbiology</td>
<td>4</td>
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<td>&amp; BIOL 2065</td>
<td>and Principles of Microbiology Lab</td>
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<tr>
<td>CHEM 1120</td>
<td>Elem Organic / Bio Chemistry</td>
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<td>&amp; CHEM 1125</td>
<td>and Elem Organic/Bio Chemistry Lab</td>
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General Education (Exploration) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext) 3
General Education (American Institutions) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext) 3

<table>
<thead>
<tr>
<th>3rd Year</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
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<tr>
<td>MLS 3312</td>
<td>Clinical Immunology</td>
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<td>MLS 3314</td>
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<tr>
<td>MLS 3850</td>
<td>Urinalysis and Body Fluids</td>
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<tr>
<td>MLS 4320</td>
<td>Hemostasis</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

| **Spring Semester** | |
| MLS 3310 | Immunohematology I | 5 |
| MLS 3330 | Clinical Chemistry | 5 |
| MLS 3555 | Research Seminar | 2 |
| MLS 4300 | Clinical Hematology | 5 |
| **Total** | **15** |

<table>
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<th>4th Year</th>
<th>Hours</th>
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<td>Diagnostic Microbiology II</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

| **Spring Semester** | |
| MLS 4330 | Clinical Chemistry Practice | 4 |
| MLS 4410 | Blood Banking Practice | 4 |
| MLS 4414 | Clinical Microbiology Practice | 4 |
| MLS 4423 | Clinical Hematology Practice | 4 |
| **Total** | **16** |

**Total Hours** 120