MEDICAL LABORATORY SCIENCE PROGRAM

Taylor Health Science Bldg. (2nd Floor)
(435) 879-4971
http://dixie.edu/health/mls/

To find faculty & staff phone numbers and email addresses, please consult the College Directory http://www.dixie.edu/directory/directory.php.

Program Coordinator
Virginia C. Hughes

Faculty
Assistant Professor
Virginia C. Hughes

Instructor
Chere Clawson

Health Science Advisor
Joni Hale

School of Nursing and Allied Health

Dean
Dr. Carole Grady

Administrative Assistant
Colleen Hales

Program Description
The mission of the Medical Laboratory Science (MLS) program is to provide the community with certified medical laboratory scientists who can function as professional members of the clinical laboratory team and leaders in healthcare initiatives. Persons who have graduated from an accredited Medical Laboratory Technician (MLT) program can apply to the MLS Bachelor of Science program, which can be completed in five semesters. The curriculum consists of basic science, General Education, and laboratory science courses, with a semester of clinical rotations at one of our hospital affiliates.

Students can gear study toward a traditional MLS curriculum or toward further study in the medical profession or other graduate program. Beginning in 2014-2015, DSC will offer an MLT program. The MLS program at DSC values teamwork, community involvement, excellent teaching and quality resources, and is committed to providing students with a variety of professional opportunities.

Certification
Upon completion of program requirements, students are eligible to sit for the National Board of Certification Exam by the American Society for Clinical Laboratory Science (ASCP). The MLS Capstone Course allows students to prepare for the national registry exam with practice mock exams which are computerized and mimic format and content of the ASCP exam.

Accreditation
Dixie State College is in the process of obtaining initial accreditation from the National Accrediting Agency for Clinical Laboratory Science (NAACLS). NAACLS can be contacted at:

NAACLS
5600 N. River Road, Suite 720
Rosemont, IL 60018
(773) 714-8880
naacslinfo@naacls.org
www.naacls.org

Facilities
The Dixie State College MLS Program is located on the second floor of the Russell C. Taylor Health Science Building, located at 1526 E. Medical Center Drive, St. George, UT. The labs are state of the art with chemistry, hematology, urinalysis, osmolality analyzers, twelve microscopes, two incubators, two fume hoods, autoclave, and two media projectors with Smart board capabilities for teaching.

 Clubs
Students have the opportunity to belong to numerous professional societies with student membership. These include the American Society for Clinical Laboratory Science, American Association of Blood Banks, and the American Society of Clinical Pathology.

Admission Requirements
Students are admitted to the MLS program without discrimination regarding gender, age, creed, ethnic origin, or marital status. Persons who have graduated from an accredited MLT associate degree program are invited to apply to DSC MLS program after first being fully admitted to Dixie State College.

After admission to DSC, students may apply to the MLS program. The application and reference form may be found at our website at www.dixie.edu/health/mls. The deadline for submission of the application to the MLS program is June 1st. Admission is competitive and based upon GPA (2.5 minimum, grade C or higher in all Mathematics and Science courses), references, laboratory experience, essay, and candidate interview. Students who are accepted will start coursework the following fall semester.

Prerequisites
The following courses must be completed before applying to the MLS program:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 1010/15</td>
<td>General Biology / Lab</td>
<td>3/1-4/1</td>
</tr>
<tr>
<td>BIOL 1610/15</td>
<td>Principles of Biology I / Lab</td>
<td></td>
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<tr>
<td>BIOL 2060/65</td>
<td>Principles of Microbiology / Lab</td>
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<tr>
<td>BIOL 2320/25</td>
<td>Human Anatomy / Lab</td>
<td>4/1</td>
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<tr>
<td>BIOL 2420/25</td>
<td>Human Physiology / Lab</td>
<td>3/1</td>
</tr>
<tr>
<td>BIOL 3460</td>
<td>Biology of Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1110/15</td>
<td>Elem General/Organic Chem/Lab</td>
<td>4/1</td>
</tr>
<tr>
<td>CHEM 1120/25</td>
<td>Elem Organic / Bio Chemistry/Lab</td>
<td>4/1</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Intro to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra / Pre-Calculus</td>
<td>4</td>
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After acceptance and prior to enrolling, students will be required to
undergo a background check and provide documentation of a physical examination and proof of specific immunizations.

Course Prefixes
- MLS

Degrees
- Bachelor of Science in Medical Laboratory Science

Bachelor of Science in Medical Laboratory Science 120 credits

The Bachelor of Science in Medical Laboratory Science degree has three basic components:
1. General Education & Institutional Requirements (some may be included in program requirements)
2. Prerequisite Requirements
3. Core Requirements

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

Institutional Requirement in Computer Literacy
Complete one of the following:
- CIS 1200 Computer Literacy 3
- CIS 1201 Computer Literacy Exam 0
- CS 1400/1410 Computer Programming 6

General Education Requirements
Complete the following:
- ENGL 1010 Intro to Writing 3
- ENGL 2010 Intermediate Writing 3

Complete one of the following:
- LIB 1000 Information Literacy Exam 0
- LIB 1010 Information Literacy 1

Complete the following:
- Mathematics GE course 3-5
- American Institutions GE course 3
- Life Sciences GE course 3-5
- Physical Sciences course 3-5
- Laboratory Science GE course 0-1

Fine Arts GE course 3
Literature/Humanities GE course 3
Social & Behavioral Sciences GE course 3
Exploration GE course 3-5
Two (2) Global & Cultural Perspectives courses 0-6

Prerequisite Requirements
Complete the following:
- BIOL 1010/15 General Biology / Lab 3/1-4/1
- BIOL 1610/15 Principles of Biology I / Lab 3/1
- BIOL 2060/65 Principles of Microbiology / Lab 3/1
- BIOL 2320/25 Human Anatomy / Lab 4/1
- BIOL 2420/25 Human Physiology / Lab 3/1
- BIOL 3460 Biology of Infectious Disease 3
- CHEM 1110/15 Elem General/Organic Chem/Lab 4/1
- CHEM 1120/25 Elem Organic / Bio Chemistry/Lab 4/1
- ENGL 2010 Intermediate Writing 3
- MATH 1040 Intro to Statistics 3
- MATH 1050 College Algebra / Pre-Calculus 4

Complete one of the following:
- COMM 1020 Public Speaking 3
- COMM 2110 Interpersonal Communication 3

Core Requirements
Complete the following:
- MLS 3310 Adv Clinical Immunohematology 4
- MLS 3314 Adv Clinical Microbiology 4
- MLS 3323 Adv Cl Hematology/Hemostasis 4
- MLS 3330 Advanced Clinical Chemistry 4
- MLS 3555 Research Seminar 2
- MLS 4020 MLS Capstone 1
- MLS 4110 Laboratory Mgmt and Education 2
- MLS 4330 Clinical Chemistry Practice 4
- MLS 4410 Clin Immunohematology Practice 4
- MLS 4414 Clinical Microbiology Practice 4
- MLS 4423 Clinical Hematology Practice 4

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 DSC for institutional residency.
4. Cumulative GPA 2.0 or higher.
5. GPA 3.0 or higher in MLS core courses.