



Holy Family Hospital Medical Laboratory Science Certification Program Curriculum

Prospective students will have the following four tracks to choose from depending on their situation:

1. Full time lecture and Full time Clinical, 12 months in length, 4+1 program, where the student has earned a B.S. in the appropriate science
2. Full time lecture and Part time Clinical, 16-18 months in length, 4+1 program, where the student has earned a B.S. in the appropriate science but need to complete their clinical on a part time basis, 20 hours a week.
3. Clinical Only:
 - a. 3 months full time, 40 hours a week. The rationale behind this option is that the student has earned a B.S. in Medical Laboratory Science from a NAACLS accredited program but has not completed a clinical experience. The student will have had to have successfully completed all the required MLS specific courses. They will have had the laboratory section of each MLS course as well. This track is intended for those students who have enough credits to graduate but may not be able to complete a clinical experience full time or at the time assigned by their college or university.
 - b. 6 months part time, 24 hours a week. The rationale behind this option is that the student has earned a B.S. in Medical Laboratory Science from a NAACLS accredited program but has not completed a clinical experience. The student will have had to have successfully completed all the required MLS specific courses. They will have had the laboratory section of each MLS course as well. This track is intended for those students who have enough credits to graduate but may not be able to complete a clinical experience full time or at the time assigned by their college or university.

Upon successful completion of the chosen track, the student will have earned a certificate in medical laboratory science from Holy Family Hospital.

Lectures and discussions will be presented in an online format using Canvas. Students will have the opportunity to schedule time with instructors to discuss via video chat, phone or in person, any questions they have about content. Quizzes, exams, assignments, and supplemental learning material are presented on the Canvas Learning Management System.

The two tracks that include lectures, require the students to spend the first 5 months of the program in lecture full time from the beginning of June until the middle of December. Course sequence is as follows: *Dates are approximate*

- Introduction to Clinical Laboratory Science -First two weeks of the program
 - CDC Microbiology Series online ([Microbiology Series | CDC](#)): first two weeks of the program or before beginning the program for those needing a microbiology review or has not taken a general microbiology course.
 - Basic microscopy
 - Routine microscopy procedures
 - Basic culture media
 - Biochemicals and Gram-Positive Organism ID
 - Biochemicals and Gram-Negative Organism ID
- Urinalysis and Body Fluids – First four weeks of the program
- Immunology – First six weeks of the program.
- Hematology and Chemistry begin the third week of the program and continue for 20 weeks.
- Blood Bank Begins the fifth week of the program and continues for 16 weeks
- Microbiology Lectures begin the seventh week of the program and continues for 21 weeks.
- Molecular Diagnostics, Educational Methods and Laboratory Management lectures will take place the from the middles of November until the middle of December, lasting four weeks each.

The goal is to provide the students with a deep understanding of the theory to apply during the clinical experience.

Students who only need the clinical experience, may begin in December or June.

Before entering the clinical experience, those students who have had no clinical lab experience, will observe, and spend time in phlebotomy and specimen processing as needed. Manual as well as automated laboratory methods are practiced during clinical rotations. Students will also correlate lab testing with the state of the disease of the patient.

The length of each clinical experience will be as follows:

The part time clinical experience was created for those students who still need to work while in school.

Example below is for a student enrolled in the lecture and full-time clinical spanning 12 months. (Students will spend 40 hours a week in clinical)

- Chemistry – 5 weeks
- Hematology/Urines – 5 Weeks
- Blood Bank – 5 Weeks
- Clinical Microbiology – 5 Weeks

Part time clinical schedule: 3 days a week (24 hours a week)

- Chemistry – 8 weeks
- Hematology/Urines – 8 Weeks
- Blood Bank – 8 Weeks
- Clinical Microbiology – 8 Weeks

3–6-month clinical schedule for students who have successfully completed a degree in a NAACLS accredited MLS program but have not completed a clinical experience.

3-month full time (40 hours a week)

- Chemistry – 3 weeks
- Hematology/Urines – 3 Weeks
- Blood Bank – 3 Weeks
- Clinical Microbiology – 3 Weeks

6-month part time (24 hours a week)

- Chemistry – 6 weeks
- Hematology/Urines – 6 Weeks
- Blood Bank – 6 Weeks
- Clinical Microbiology – 6 Weeks

Molecular- students will be exposed to molecular testing in either the microbiology department or core lab

As part of the management course students will be expected to shadow the laboratory director or laboratory manager

As part of the education course, students will present a lecture to peers and laboratory staff either in person or virtually

We will be compiling an advisory board which will meet two times a year, once in the fall and once in the spring. The advisory board's feedback will be used to make this a successful MLS program. Instructors, both didactic and clinical, are committed to providing relevant educational experiences for students so that each student will enter the laboratory profession as a capable, competent, ethical, entry level medical laboratory scientist.

For More Information or to Register:

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