

# *Associate of Applied Science Degree in Medical Laboratory Technology*

## **PENDING APPROVAL**

**AREA:** Medical Laboratory Technology

**DEGREE:** Associate of Applied Science Degree

**LENGTH:** Four semesters

**PURPOSE:** The Associate of Applied Science Degree in Medical Laboratory Technology (AAS MLT Program) at Lord Fairfax Community College (LFCC) is designed to prepare students to master entry level Medical Laboratory Technology knowledge. The program combines the use of sophisticated instruments and techniques with the application of theoretical knowledge to perform complex procedures on tissue specimens, blood specimens, and other body fluids. The tests and procedures that Medical Laboratory Technologists perform provide critical information enabling physicians to diagnose, treat, and monitor a patient's condition. Upon satisfactory completion of this program, the student will be eligible to take a national board examination, such as American Society for Clinical Pathology (ASCP). Opportunities for the entry level MLT include employment in a myriad of health care settings.

**TRANSFER GUIDELINES:** Transfer opportunities for associate of applied science degrees, if existing, are very specific in nature. Students enrolling in an applied science degree with plans to transfer should explore opportunities with an advisor.

**ADMISSION REQUIREMENTS:** Acceptance into the AAS Medical Laboratory Technology program is selective and competitive. Submission of an application does not guarantee acceptance into the AAS program. Applicants not selected for the program must complete and resubmit a new application packet each year. Applicants for the AAS program are selected one time per academic year. Deadline for submitting completed applications is June 1 for the upcoming academic year. Applicants are responsible for making certain that the following have been submitted to the Medical Laboratory Technology Program Director, in addition to a current college application: official transcripts from all colleges attended (transcripts from LFCC or other Virginia Community Colleges are not required), official transcripts showing completion of a high school diploma or records showing completion of GED with scores, and a current Medical Laboratory Technology application form. Early admission is encouraged for advising purposes. Applicants will be notified of their program admission status in June.

1. Application to Lord Fairfax Community College (LFCC) and the MLT program.

2. One unit of high school Biology and one unit of high school Chemistry; or college equivalents (BIO 101; CHM 101).
3. LFCC placement tests (if required) and completion of any developmental work that may be identified by the placement test.
4. A GPA of 2.5 or higher based on the twelve most recent college credits completed by the end of fall semester prior to submitting an MLT application. A GPA lower than 2.5 will be considered on a case-by-case basis.
5. Applicants must receive an ENG 111 placement test recommendation or have successfully completed all developmental English requirements.
6. Applicants who do not demonstrate proficiency on the placement test in the following mathematical units will be required to complete developmental courses or their credit equivalent: MTE1, MTE2, MTE3, MTE4, MTE5, MTE6, MTE7, MTE8, and MTE9.
7. Completion of the pre-requisite courses, or equivalent, noted in the course curriculum. Students who are currently enrolled in the prerequisites may apply; acceptance into the program will be contingent upon passing the courses with a "C or 70%" or better prior to beginning the MLT program curriculum.
8. Meet certain computer competencies prior to entering the MLT program. Applicants are required to review and sign, "Essential Computer Competency Checklist." Students without the required skill set are encouraged to enroll in ITE 115. See requirements here: <http://www.lfcc.edu/wp-content/uploads/2015/03/ADN-Computer-Competency.pdf>
9. Two completed reference forms – one personal and one professional reference – included in application packet.

Successful completion of the required 68 credits with a minimum grade of "C or 70%" in all general education and a "C or 75%" in all MDL Medical Laboratory Technology courses is required for the AAS.

**APPROVAL:** The LFCC AAS is pending approval by the State Board for Community Colleges and the State Council of Higher Education for Virginia (SCHEV).

### **Admission requirements**

Must be completed with a "C or 70%" to apply to AAS Program

SDV	100	College Success Skills	1
CHM	111	General Chemistry I	4
BIO	141	Human Anatomy & Physiology I	4
ENG	111	College Composition I	3
<b>Total</b>			<b>12</b>

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**First Semester** Acceptance into the AAS program is required to enroll in MDL courses.

MDL	101	Intro. To Medical Laboratory Techniques	3
BIO	142	Human Anatomy & Physiology II	4
MDL	110	Urinalysis and Body Fluids	3
BIO	150	Introductory Microbiology	4
PSY	200	Principles of Psychology	3
<b>Total</b>			<b>17</b>

**Second Semester**

MDL	240	Clinical Microscopy	2
MDL	210	Immunology and Serology	2
MDL	125	Clinical Hematology I	3
MDL	126	Clinical Immunohematology I	4
PHI	220	Ethics	3
<b>Total</b>			<b>14</b>

**Third Semester** Completion of all prior MDL courses with a grade of "C or 75%" or better is required to enroll in second year MDL courses.

MDL	261	Clinical Chemistry and Instrumentation I	4
MDL	252	Clinical Microbiology II	3
MDL	225	Clinical Hematology II	3
MDL	227	Clinical Immunohematology II	3
<b>Total</b>			<b>13</b>

**Fourth Semester:** Completion of all previous MDL courses with a grade of "C or 75%" or better is required to enroll in Clinical Rotation semester of the MLT Program.

MDL	290*	Coordinated Internship	5
MDL	105	Phlebotomy	3
MDL	298	Seminar and Project	3
MDL	281	Clinical Correlations	1
<b>Total</b>			<b>12</b>
<b>Program Total</b>			<b>68</b>

\*The Coordinated Internship (MDL 290) will consist of 375 clinical hours, rotating throughout different departments in a predetermined Clinical Laboratory. The students will spend 3 weeks in Chemistry (4 days a week, 7 hour days), 3 weeks in Hematology (4 days a week, 7 hour days), 4 weeks in Microbiology (4 days a week, 7 hour days), and 4 weeks in Blood Bank (4 days a week, 7 hour days). Serology, Coagulation, and Urinalysis clinical hours will be incorporated in the four mentioned departments. Students will be allotted a 30 minute break each day of their clinical rotation. Credit/Practice ratio will not exceed 1:5 hours. This is a pass/unsatisfactory course. Students who do not complete 375 hours will not pass the course.

Successful completion of this course is mandatory in earning the AAS degree.

**CLINICAL REQUIREMENTS:** During the final semester, students will enter the field for a 14 week clinical rotation. Medical laboratory personnel frequently work with blood and body fluids which may harbor infectious diseases such as bacteria and viruses. Students may likewise be exposed to potentially infectious blood borne disease as well as bacterial and viral cultures in the clinical microbiology laboratory due to time pressures placed on the laboratory personnel.

Prior to admission to the Clinical Rotation:

1. Students must be 18 years of age.
2. Clinical experience will be provided in the final semester of the program in affiliated hospitals or laboratories. Students must purchase required apparel before the start of clinical rotations.
3. Students must provide their own form of transportation to and from the clinical sites.
4. Graduation from high school or satisfactory completion of the certificate of general education development (GED or equivalent); official copy required.
5. Current immunization record to include Td/Tdap, MMR, Varicella, PPD, Bacterial meningitis, Polio, Influenza and Hepatitis series.
6. Physical exam form completed within the last 6 months signed by a M.D. or D.O and student health history form.
7. Proof of health insurance.
8. Results of Criminal Background Check and Urine Drug Screen completed within ninety days and submitted forty-five (45) days prior to entering Clinical rotation. The cost of the background check and the drug screen are the responsibility of the student.
9. Sign an agreement which releases all clinical agencies and their employees, Lord Fairfax Community College, The Virginia Community College System and the Commonwealth of Virginia from any liability for any injury or death to the student or damage to his/her property arising out of agreement of use of facilities associated with the MLT program.