



# Associate in Applied Science

## Toward a Degree in Medical Laboratory Technology

Career Curriculum MLT0093  
Minimum Hours: 65  
Major Code: 1.2 511004C  
Effective Date: Spring 2011

### FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
BIO	205	Human Anatomy and Physiology I	4 4	_____ _____

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
BIO	206	Human Anatomy and Physiology II	4	_____ _____
CHM	141	General, Organic, and Biochemistry I <sup>1</sup>	4	_____ _____
Any IAI Math	OR MAT 108	College Algebra	3-4	_____ _____
MLT	120	Introduction to Clinical Lab	3 14-15	_____ _____

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BIO	226	General Microbiology <sup>2</sup>	4	_____ _____
CHM	142	General, Organic, and Biochemistry II	4	_____ _____
MLT	121	Serology	1.5	_____ _____
MLT	122	Clinical Microscopy	1.5	_____ _____
MLT	123	Phlebotomy	3 14	_____ _____

### SECOND YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
ENG	101	English Composition I <sup>2</sup>	3	_____ _____
SPE	115	Speech	3 6	_____ _____

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
MLT	223	Immunohematology (1st 10 1/2 weeks)	4	_____ _____
MLT	228	Hematology and Hemostasis (1st 10 1/2 weeks)	5	_____ _____
MLT	251	Clinical Rotation I (Last 6 1/2 weeks)	3 12	_____ _____

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
MLT	225	Clinical Chemistry (1st 10 1/2 weeks)	4	_____ _____
MLT	229	Applied Clinical Microbiology (1st 10 1/2 weeks)	5	_____ _____
MLT	252	Clinical Rotation II (Last 6 1/2 weeks)	3	_____ _____
PSY	132	General Psychology	3 1	_____ _____

### NOTES AND INFORMATION

\*Retention in the MLT program requires that the MLT students earn a grade of "C" or better in all MLT and natural science courses (chemistry, microbiology, anatomy and physiology). The student must achieve a "C" average in the MLT curriculum in order to graduate. If a student fails an MLT or a required natural science course, the course must be repeated with a passing grade ("A", "B", or "C"). MLT courses are only offered once a year, so the student will have to wait to take courses until the prerequisite course has been completed with a passing grade. All courses must be taken in sequence as specified by course prerequisites unless permission is granted by the program director. "C" average = 2.0 on a 4- pt. scale; 3.0 on a 5-pt. scale.

Students wanting to transfer to SIU-C in Health Care Management must complete ACC 200, BUS 215, and MAT 108.

<sup>1</sup> Students must have consent of instructor if they take MAT 108 concurrently.

<sup>2</sup> Requires a grade of "C" or higher.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

### Additional Information:

**The Profession.** The Medical Laboratory Technician (MLT) is employed in clinical laboratories of hospitals, clinics, physician's offices, and other health care facilities performing varied laboratory procedures and diagnostic tests. Laboratory tests are performed on body fluids such as blood, which is obtained by the technician through venipuncture. The MLT works as a bench technician under the direct supervision of a physician and/or medical technologist in the areas of blood banking, clinical chemistry, hematology, microbiology, urinalysis, coagulation, and immunology. The MLT is an integral part of the health care team focused on providing optimum patient care. The technician monitors quality control, performs maintenance on equipment and instruments, applies basic scientific principles to laboratory techniques and procedures, recognizes factors that affect procedures and results (taking corrective action when indicated), relates laboratory findings to common disease processes, and interacts with other health care personnel and patients.

**The Program.** The Medical Laboratory Technology (two-year) Associate Degree Program is offered through the Southern Illinois Collegiate Common Market (SICCM) and is a cooperative program with John A. Logan College, Rend Lake College, Shawnee Community College, Kaskaskia College, and Southeastern Illinois College. Each spring semester, students from each college are admitted to begin the program the following fall semester. Biology 205 should be taken prior to beginning the program.

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MLT Program admission is non-discriminatory, but certain personal and physical attributes are key to success in the profession. These may include the following: good general physical health, good vision (may be corrected), good color vision, and good manual dexterity.

Students are admitted to the MLT program and register for all courses through their home campus. General education courses are taken at the home campus, but MLT core courses are taught at various campuses, requiring students to travel an hour or more to classes. When registering for courses, students should consider travel time between their home campus and campuses where MLT core courses are scheduled. MLT courses may be taught in the day and/or evening based on part-time faculty availability. MLT courses of the second year are taught in the first 10 1/2 weeks of the semester. Courses are scheduled back-to-back to reduce student travel time. Clinical rotations are required in the second year of the program. These consist of two 16-day rotations during the last 6 1/2 weeks of the semester and are completed in labs of area hospitals. Students will be assigned to clinical sites as close to their home as possible, but students may have to travel considerable distances.

**The SICCM MLT Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Rd., Suite 720, Rosemont, IL 60018-5119, telephone: (773) 714-8880. Students who have completed the program requirements are eligible to take the national certification examination offered by the Board of Certification of the American Society of Clinical Pathologists (ASCP). The certified graduate may then use the title "MLT (ASCP)."**

**Career Opportunities:** Medical laboratory technician.

**Major Employers:** Clinical laboratories of hospitals, clinics, physician's offices, and other health care facilities performing laboratory procedures and diagnostic tests

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*